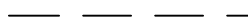


LEGEND

	SURVEY CONTROL POINT		TRAFFIC SIGNAL BOX
	SURVEY BENCHMARK		TRAFFIC SIGNAL MANHOLE
	SURVEY TEMPORARY BENCHMARK		TRAFFIC SIGNAL POLE W/ ARM
	GAS METER		TRAFFIC SIGNAL POLE
	GAS RISER		TRAFFIC SIGNAL CONTROL BOX
	GAS MANHOLE		TRAFFIC SIGNAL PEDESTAL
	GAS REGULATOR		ELECTRIC MANHOLE
	TELEVISION PEDESTAL		ELECTRIC METER
	FIBER BOX		ELECTRIC RISER
	FIBER PEDESTAL		ELECTRIC BOX
	CABLE BOX		ELECTRIC CABINET
	CABLE VAULT		ELECTRIC JUNCTION BOX
	TELEPHONE PEDESTAL		SPRINKLER HEAD
	STORM MANHOLE		SPRINKLER CONTROL VALVE
	STORM GRATE		WATER METER PIT
	SANITARY MANHOLE		FIRE HYDRANT
	YARD LIGHT		WATER METER
	LIGHT POLE		WATER VALVE
	POWER POLE		FLAG POLE
	POWER POLE W/ LIGHT		SIGN
	GUY WIRE		BOLLARD
	STUMP		WOOD POST
	BUSH		STEEL POST
	EVERGREEN TREE		COLUMN
	DECIDUOUS TREE		BORE HOLE

	SECTION LINE
	PROPERTY LINE
	CENTER LINE
	PROPOSED ROW LINE
	EXISTING ROW LINE
	UTILITY EASEMENT
	EXISTING CONTOUR
	EXISTING CONTOUR
	PROPOSED MINOR CONTOUR
	PROPOSED MAJOR CONTOUR
	EXISTING TELEPHONE LINE
	EXISTING SANITARY LINE
	EXISTING STORM LINE
	EXISTING GAS LINE
	EXISTING WATER LINE
	EXISTING CHAIN LINK FENCE
	EXISTING OVERHEAD ELECTRIC
	EXISTING PIPE LINE
	GRADING LIMITS
	TEMPORARY CONSTRUCTION EASEMENT
	PROPOSED UTILITY OVERHEAD EASEMENT
	PROPOSED PERMANENT DRAINAGE EASEMENT
	PROPOSED CHAIN LINK FENCE
	PROPOSED WOOD PRIVACY FENCE
	EXISTING TREELINE

ABBREVIATION TABLE

M.G.	MATCH GRADE
BOC	BACK OF CURB
EOP	EDGE OF PAVEMENT
R/W	RIGHT-OF-WAY
D/E	DRAINAGE EASEMENT
S/E	SANITARY EASEMENT
S/W	SIDEWALK
TCE	TEMPORARY CONSTRUCTION EASEMENT
UOHE	UTILITY OVERHEAD EASEMENT
PDE	PERMANENT DRAINAGE EASEMENT
PROP.	PROPOSED
EXIST.	EXISTING
TYP.	TYPICAL
CONST.	CONSTRUCT
TBM	TEMPORARY BENCHMARK
C.P.	CONTROL POINT
D.N.D.	DO NOT DISTURB
U.I.P.	USE IN PLACE
AD.J.	ADJUST
EL.	ELEVATION
ESMT.	EASEMENT
BK.CB.	BACK OF CURB
BK.SWK.	BACK OF SIDEWALK

*PROPOSED UTILITIES

_____ [ATT] _____	PROPOSED AT&T
_____ [FO] _____	PROPOSED FIBER
_____ [G] _____	PROPOSED GAS
_____ [W] _____	PROPOSED WATERLINE
_____ [UTL OH] _____	PROPOSED OVERHEAD UTILITIES
_____ [SL] _____	PROPOSED STREET LIGHT CONDUIT
_____ [CO] _____	PROPOSED CONSOLIDATED

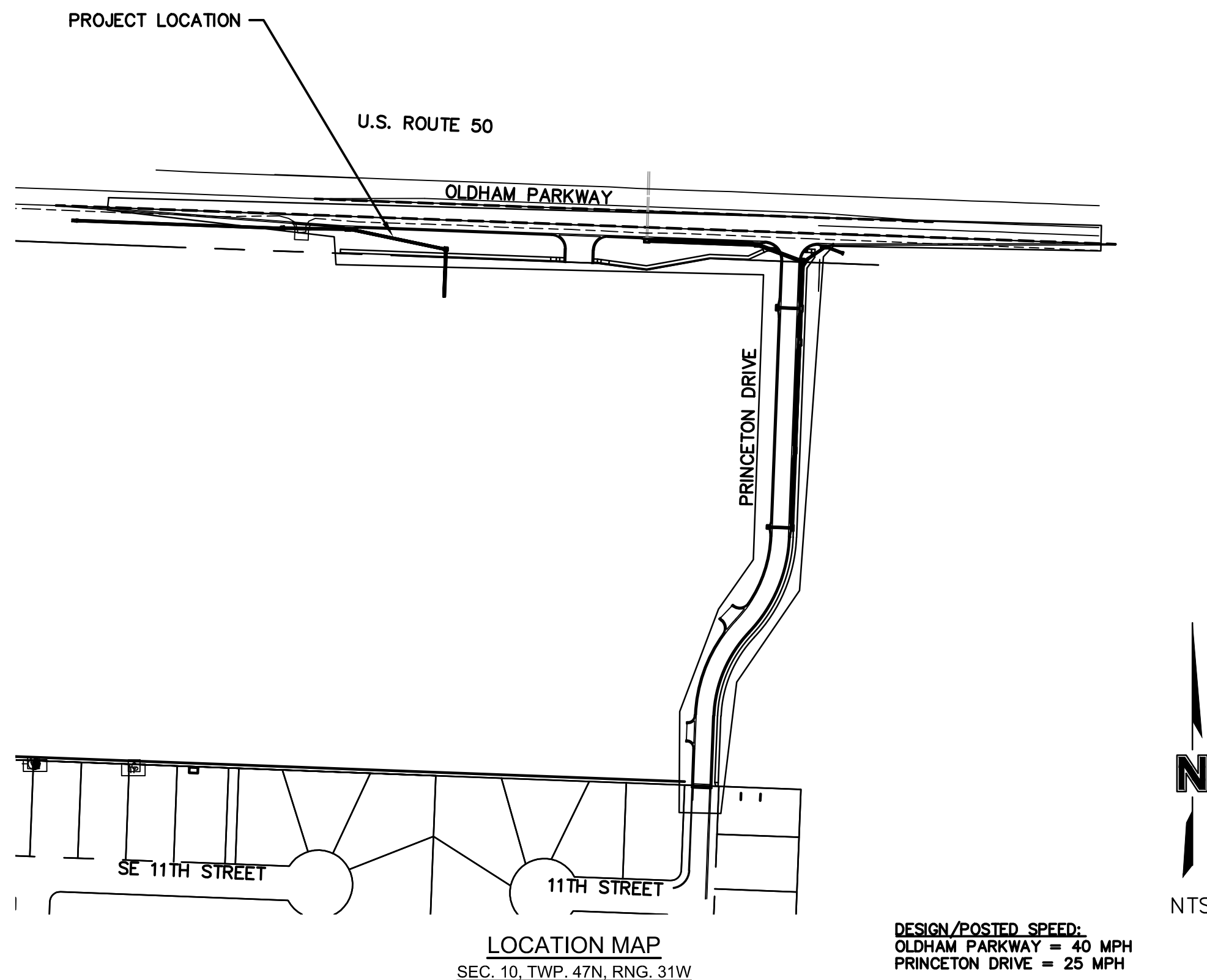
*The utilities as shown in this legend represent the intended construction or relocation of utilities. These plans do not take into account the construction schedule or "As-Constructed Plans" of utility construction or relocations. Therefore, the Contractor shall notify all utility agencies before beginning work and shall cooperate with them in locating and protecting their utilities. The Engineer and Owner make no guarantee as to accuracy or completeness of information shown.



1-800-DIG-RITE or 811
www.mo1call.com

THE EXISTING UTILITY LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND MAY NOT INCLUDE ALL LINES PRESENT. THE CONTRACTOR SHALL BE RESPONSIBLE TO CALL "1-800-DIG-RITE", AND COORDINATE FIELD LOCATION OF EXISTING UNDERGROUND UTILITIES PRIOR TO BEGINNING GRADING ACTIVITIES. !!STOP!! CALL BEFORE YOU DIG!!

FINAL PLANS FOR PUBLIC ROADWAY IMPROVEMENTS OLDHAM PARKWAY & PRINCETON DRIVE LEE'S SUMMIT, MISSOURI



INDEX OF SHEETS

<u>SHEET NO.</u>	<u>TITLE</u>
T1	TITLE SHEET
T2	GENERAL LAYOUT
T3	ALIGNMENT DATA & SURVEY CONTROL
T4	GENERAL NOTES
T5	DEMOLITION AND REMOVALS
T6	TYPICAL SECTIONS
T7-T11	PLAN AND PROFILES
T12	INTERSECTION LAYOUTS
T13-T14	DRIVE LAYOUTS
T15	SIDEWALK RAMP LAYOUTS
T16-T22	STANDARD DETAILS
T23-T24	EROSION CONTROL PLANS
T25-T29	PAVEMENT MARKING & SIGNING PLANS & DETAILS
T33-T34	TRAFFIC CONTROL PLANS & DETAILS
T35-T51	CROSS SECTIONS

PUBLIC STORM WATER

<u>SHEET NO.</u>	<u>TITLE</u>
ST1.0-ST1.3	STORM PROFILES
ST2.0-ST3.0	DRAINAGE MAP & STORM SEWER CALCULATIONS
ST4.0-ST4.1	STORM WATER DETAILS

PREPARED & SUBMITTED BY:

OLSSON ASSOCIATES
7301 W. 133RD STREET, SUITE 200
OVERLAND PARK, KANSAS 66213

RYAN B. FLEMING _____ DATE _____

I CERTIFY THESE PLANS WERE PREPARED BY ME
OR UNDER MY IMMEDIATE PERSONAL SUPERVISION.

Digitally signed by
Gene Williams
DN: CN=Gene
Williams,
OU=Development
OU=LS Users,
Gene Williams
DC=COLS,
DC=LOC
Reason: I have
reviewed this
document
Date: 2022.12.06
14:19:57-0600

**Accepted
Record Drawings**

These plans have been reviewed for accuracy and are accepted for basic conformance to the approved construction drawings.

olson

Olsson Engineering - MO State Certificate of Authority #001592
77301 West 133rd Street, Suite 200 TEL 913.381.1170
Overland Park, KS 66213-4750 FAX 913.381.1174 www.olsson.com

RECORD DRAWING



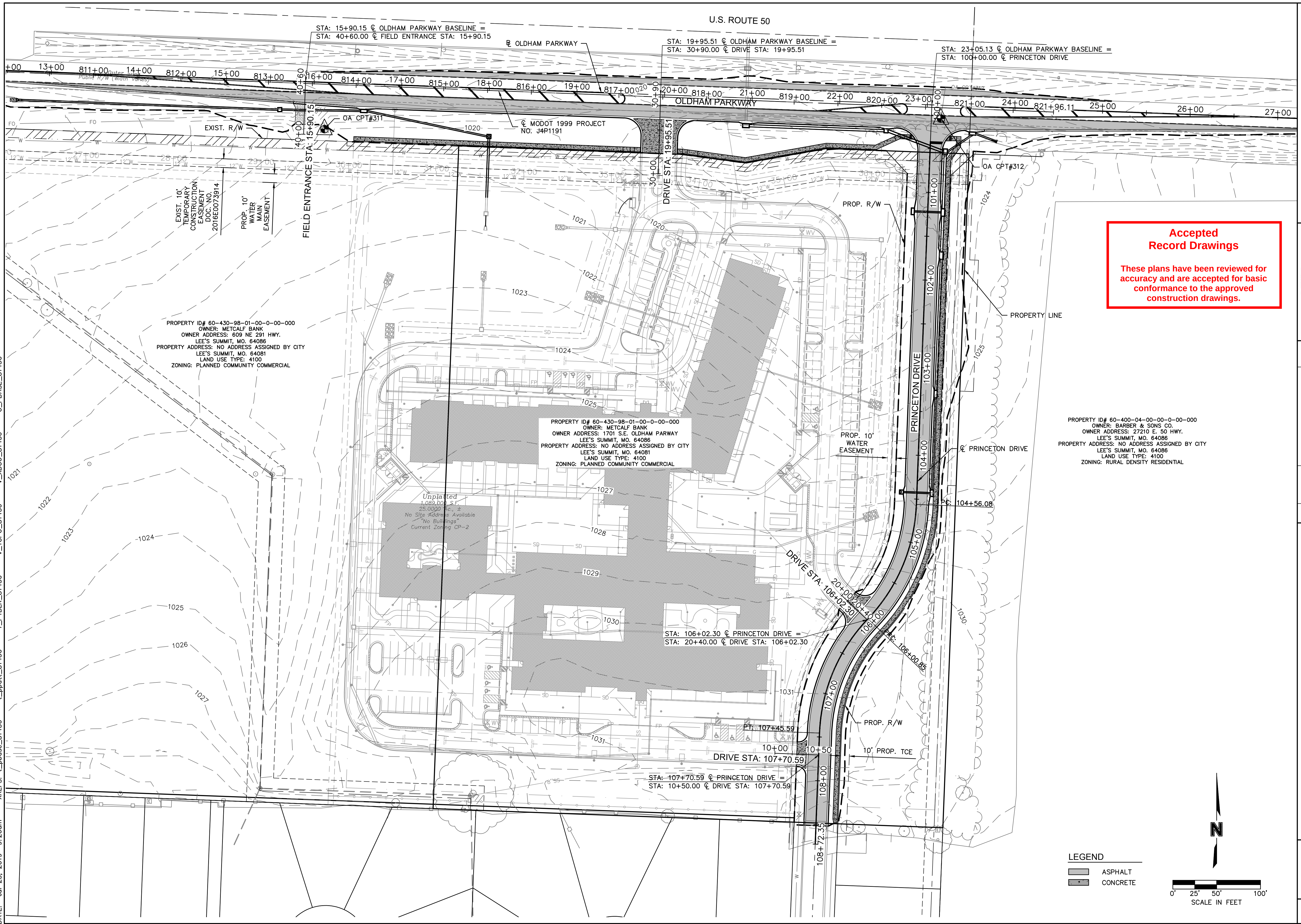
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TITLE SHEET	
OREILLY DEVELOPMENT SENIOR LIVING FACILITY OLDHAM PARKWAY & PRINCETON DRIVE IMPROVEMENTS	
LEE'S SUMMIT, MISSOURI	2019

C.O.A. NO.: 001592
DRAWN BY: AS
CHECKED BY: JKL
APPROVED BY: RBF
QA/QC BY: JKL/RBF
PROJECT NO.: 018-1450
DWG NO.: T_TTL_81450
DATE: 07.19.19

SHEET
T1 OF 70



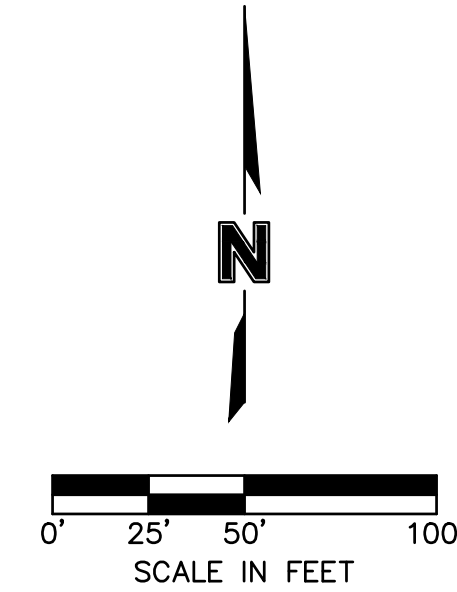
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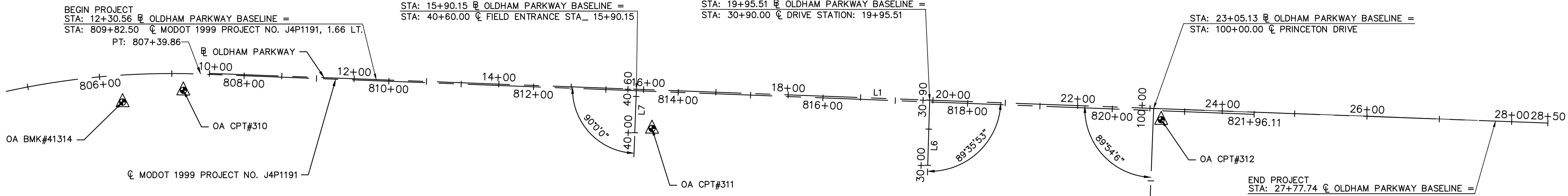
PROPERTY ID# 60-400-04-00-00-0-00-000
OWNER: BARBER & SONS CO.
OWNER ADDRESS: 27210 E. 50 HWY.
LEE'S SUMMIT, MO. 64086
PROPERTY ADDRESS: NO ADDRESS ASSIGNED BY CITY
LEE'S SUMMIT, MO. 64086
LAND USE TYPE: 4100
ZONING: RURAL DENSITY RESIDENTIAL

LEGEND

	ASPHALT
	CONCRETE



DWG: F:\2018\1001-1500\018-1450-40-Design\AutoCAD\Final Plans\Sheets\RD\B\GENERAL\T_ALGN_81450.dwg
DATE: Jul 25, 2019 9:20am
USER: asoavedra
V_TOPO_81450
V_XBLK_81450
T_PTBK_81450
t_patt_81450
XREFS: t_pbase_81450



Control: Horizontal & Vertical Control is based on the MoDOT Continuously Operating GNSS Network, Missouri Coordinate System 1983, West Zone, MO DNR Control Point JA-45.

Coordinate Datum: State Plane Bearings, Local Ground Coordinates, Ground Distances, US Survey Feet

MO DNR JA-45: KC Metro Aluminum GRS Disk Set in Concrete 3"± below Pavement on the Shoulder of SE Ranson Road Stamped "JA-45"
Elev.=1046.26'
Published Coordinates (1988 Adjustment):
N: 303273.664m
E: 663885.886m
Grid=Ground
N: 994990.3460
E: 2834265.6110
CAF: 0.9998986

OA CPT #310: Found 1/2" Rebar w/Cap 8' South of Pavement East of RCB
N: 995873.44
E: 2835537.73

OA CPT #311: fOUND 1/2" Rebar w/Cap 30' South of Pavement Southeast of Gravel Field Entrance
N: 995821.94
E: 2836184.94

OA CPT #312: Set 1/2" Rebar w/Cap "Olsson Associates Survey Control Point" 1' South of Pavement
N: 995834.09
E: 2836888.17

Elevations Datum: NAVD 1988

OA Bench Mark #41314: Set Square Cut in Center of Concrete Headwall for RCB
Elevation=1007.13'

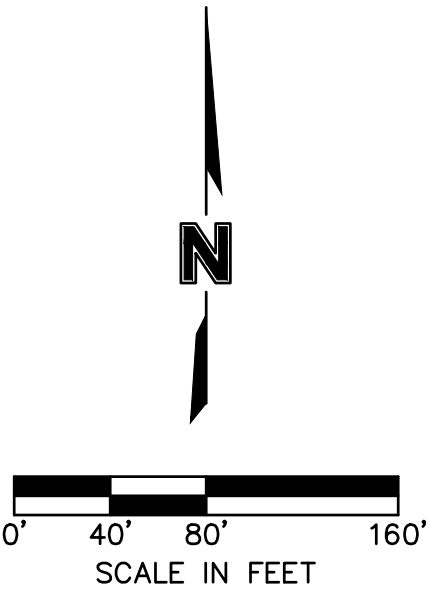
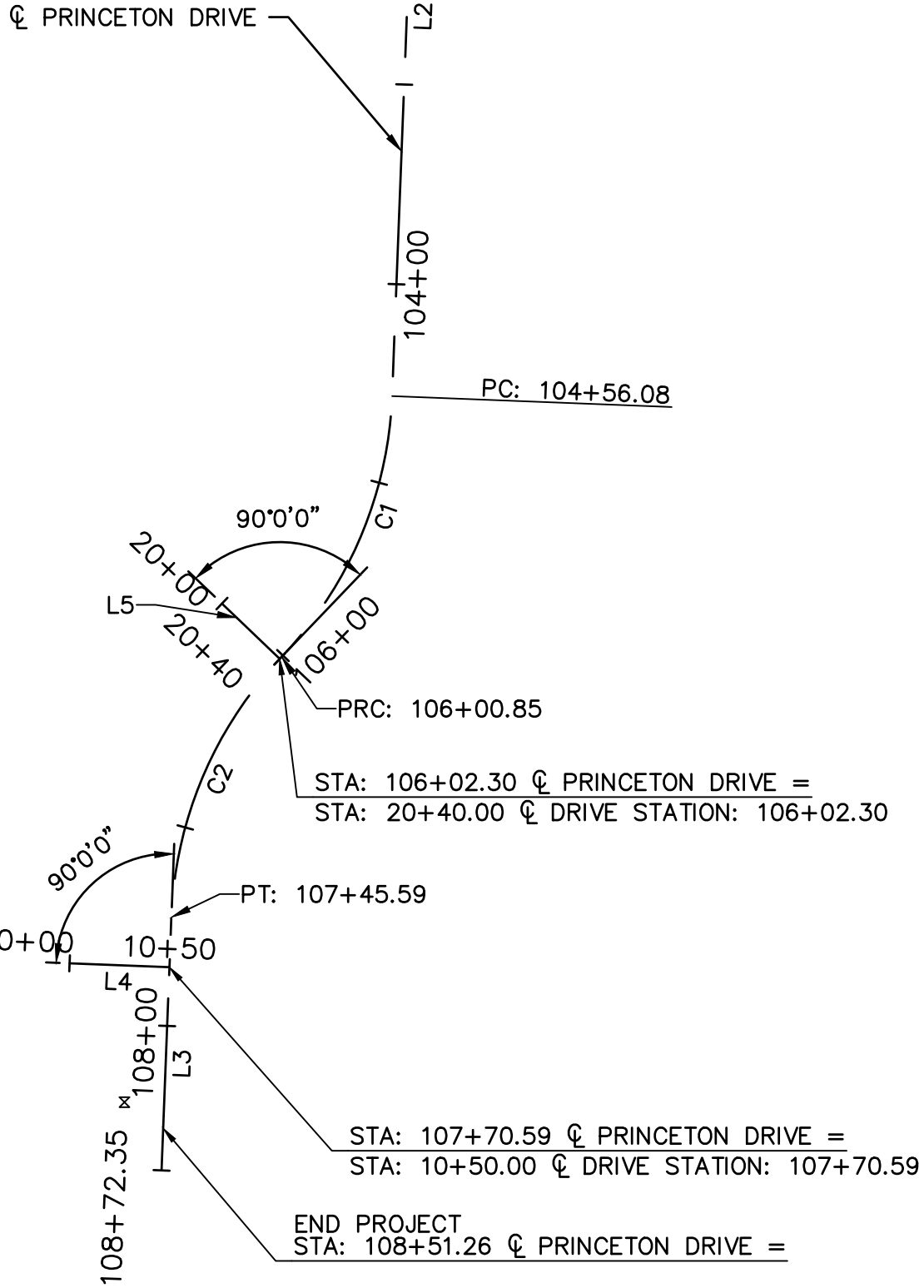
Utilities:

Utilities shown have been located from field survey information, together with obtained records. The Surveyor makes no guarantee that the utilities shown comprise all such utilities in the area, either in-service or abandoned. The Surveyor further does not warrant that the utilities shown are in the exact location indicated. Locates are in compliance with Subsurface Utility Engineering Quality Level "B", and were through the Missouri One-Call System, Ticket Number 181362453. Companies listed on said Ticket are: ATT Distribution, Google Fiber, Spire MO Midwest, City of Lee's Summit, City of Lee's Summit Sewer, City of Lee's Summit Stormwater, Tri-County Water Authority, Time Warner Cable and Kansas City Power & Light.

OLDHAM PARKWAY BASELINE								
ID #	STATION RANGE	START COORD.	END COORD.	PI STATION	PI COORD.	LINE/CHORD LENGTH (FT)	LINE/CHORD BEARING	RADIUS (FT)
L1	10+00 28+50	N: 995897.33 E: 2835573.57	N: 995828.82 E: 2837422.30			1850.00	S87°52'39"E	

PRINCETON DRIVE								
ID #	STATION RANGE	START COORD.	END COORD.	PI STATION	PI COORD.	LINE/CHORD LENGTH (FT)	LINE/CHORD BEARING	RADIUS (FT)
L2	100+00 104+56.08	N: 995849.00 E: 2836877.81	N: 995393.27 E: 2836860.13			456.08	S2°13'14"W	
C1	PC 104+56.08 PT 106+00.85	PC N: 995393.27 E: 2836860.13	PT N: 995262.85 E: 2836804.89	105+31.80	N: 995317.60 E: 2836857.20	141.63	S22°57'27"W	200.00
C2	PC 106+00.85 PT 107+45.59	PC N: 995262.85 E: 2836804.89	PT N: 995132.47 E: 2836749.65	106+76.55	N: 995208.12 E: 2836752.59	141.60	S22°57'45"W	200.00
L3	107+45.59 108+72.35	N: 995132.47 E: 2836749.65	N: 995005.80 E: 2836744.72			126.77	S2°13'49"W	

DRIVE STATION: 107+70.59								
ID #	STATION RANGE	START COORD.	END COORD.	PI STATION	PI COORD.	LINE/CHORD LENGTH (FT)	LINE/CHORD BEARING	RADIUS (FT)
L4	10+00 10+50	N: 995109.43 E: 2836698.71	N: 995107.48 E: 2836748.68			50.00	S87°46'11"E	



Accepted
Record Drawings

These plans have been reviewed for accuracy and are accepted for basic conformance to the approved construction drawings.

DRIVE STATION: 106+02.30								
ID #	STATION RANGE	START COORD.	END COORD.	PI STATION	PI COORD.	LINE/CHORD LENGTH (FT)	LINE/CHORD BEARING	RADIUS (FT)
L5	20+00 20+40	N: 995289.44 E: 2836774.98	N: 995261.80 E: 2836803.89			40.00	S46°17'14"E	

DRIVE STATION: 19+95.51								
ID #	STATION RANGE	START COORD.	END COORD.	PI STATION	PI COORD.	LINE/CHORD LENGTH (FT)	LINE/CHORD BEARING	RADIUS (FT)
L6	30+00 30+90	N: 995770.51 E: 2836565.70	N: 995860.47 E: 2836568.40			90.00	N1°43'14"E	

FIELD ENTRANCE STA_ 15+90.15								
ID #	STATION RANGE	START COORD.	END COORD.	PI STATION	PI COORD.	LINE/CHORD LENGTH (FT)	LINE/CHORD BEARING	RADIUS (FT)
L7	40+00 40+60	N: 995815.52 E: 2836161.09	N: 995875.48 E: 2836163.31			60.00	N2°07'21"E	

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7301 West 133rd Street, Suite 200
Overland Park, KS 66213-4750
TEL 913.381.1170
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RECORD DRAWING



"NOT AS BUILT"

BY	REV. NO.	DATE	REVISIONS DESCRIPTION	REVISIONS
		07/19/2019	ENGR. REVIEW COMMENTS	

ALIGNMENT DATA & SURVEY CONTROL		2019
OREILLY DEVELOPMENT SENIOR LIVING FACILITY OLDHAM PARKWAY & PRINCETON DRIVE IMPROVEMENTS		LEE'S SUMMIT, MISSOURI

C.O.A. NO.: 001592
DRAWN BY: AS
CHECKED BY: JKL
APPROVED BY: RBE
QA/QC BY: JKL/RBE
PROJECT NO.: 018-1450
DWG NO.: T_ALGN_81450
DATE: 07.19.19

SHEET
T3 OF 70

GENERAL NOTES FOR CAPITAL IMPROVEMENTS PROJECTS
(REV. FEBRUARY 10, 2010)

1)PRELIMINARY INFORMATION:

- a) CONSULT PARAGRAPH 6.12 OF THE EJDC GENERAL CONDITIONS (C-700) FOR A COMPLETE LIST OF RECORD DOCUMENTS THAT THE CONTRACTOR SHALL MAINTAIN ON SITE.
- b) PERMITS REQUIRED FOR THE WORK CAN BE FOUND IN SECTION 1010 OF THE GENERAL REQUIREMENTS (DIVISION 1).
- c) CONSTRUCTION OF THE WORK SHOWN OR IMPLIED BY THIS SET OF DRAWNGS SHALL NOT BE INITIATED UNLESS ALL PRELIMINARY CONTRACT OBLIGATIONS ARE MET, AND THE OWNER IS NOTIFIED OF THE INTENT TO START THE WORK. SEE SECTION 1020 OF DIVISION 1.
- d) ALL WORK SHALL BE CONFINED WITHIN THE CONSTRUCTION LIMITS OR AS OTHERWISE DIRECTED BY THE OWNER.
- e) ANY WORK PERFORMED PRIOR TO ENGINEER'S REVIEW AND APPROVAL OF THE PERTINENT SUBMITTAL WILL BE AT THE SOLE EXPENSE AND RESPONSIBILITY OF CONTRACTOR. SUBMITTAL PROCEDURES AND REQUIREMENTS CAN BE FOUND IN PARAGRAPH 6.17 OF C-700 AND SECTIONS 1115 AND 1116 OF DIVISION 1.
- f) OWNER IS DEFINED AS THE CITY OF LEE'S SUMMIT.

2)COORDINATION AND NOTIFICATIONS:

- a) ANY TIME REFERENCES LISTED IN PARAGRAPH 2 ARE TYPICAL TIMELINES. CONSULT SECTION 1105 OF DIVISION 1 FOR PROJECT SPECIFIC TIMELINES, COORDINATION AND NOTIFICATION PROCESSES.
- b) PRIOR TO ANY STREET CLOSURES, APPROPRIATE NOTIFICATIONS WILL BE DISTRIBUTED. THE CLOSURES OF ARTERIAL AND COLLECTOR STREETS WILL TYPICALLY CAUSE THE OWNER TO GENERATE A PRESS RELEASE AND DETOUR MAP. THIS IS TYPICALLY 14 CALENDAR DAYS.
- c) THE REMOVAL OF TREES, SHEDS, FENCING OR OTHER ITEMS ON PRIVATE PROPERTY ARE NOT AUTHORIZED ON THIS PROJECT. CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY IF ANY SUCH WORK IS PROPOSED. THE OWNER REQUIRES AT LEAST 14 CALENDAR DAYS TO NOTIFY PROPERTY OWNER RESIDENT, IN ORDER TO GIVE THEM OPPORTUNITY TO SALVAGE THESE ITEMS.
- d) PRIOR TO DRIVEWAY DEMOLITION AND RECONSTRUCTION, CONTRACTOR SHALL NOTIFY AND COORDINATE WITH THE PROPERTY OWNER OR RESIDENT. THIS IS TYPICALLY 2 WORKING DAYS.
- e) PRIOR TO SHUTTING DOWN A WATER MAIN, CONTRACTOR SHALL NOTIFY AND COORDINATE WITH THE PROPERTY OWNER OR RESIDENT. THIS IS TYPICALLY 2 WORKING DAYS.
- f) CONTRACTOR SHALL NOT BE ALLOWED TO WORK WEEKENDS OR HOLIDAYS WITHOUT REQUESTING PRIOR APPROVAL FROM OWNER THREE WORKING DAYS IN ADVANCE.
- g) BY ORDINANCE 17-42, WORKING HOURS WITHIN THE CITY OF LEE'S SUMMIT ARE 7:00 A.M. TO 10:00 P.M. REQUESTS TO WORK BEYOND THESE HOURS MUST BE FILED WITH THE OWNER ONE WEEK IN ADVANCE.

3)SURVEY:

- a) IN ACCORDANCE WITH PARAGRAPH 4.05 OF C-700, OWNER OR ENGINEER SHALL PROVIDE ENGINEERING SURVEYS TO ESTABLISH REFERENCE POINTS FOR CONSTRUCTION WHICH IN THEIR JUDGMENT ARE NECESSARY TO ENABLE CONTRACTOR TO PERFORM THE WORK. CONTRACTOR IS RESPONSIBLE FOR LAYING OUT THE WORK AND SHALL SET THOSE STAKES NECESSARY TO CONSTRUCT THIS PROJECT. NO DIRECT PAYMENT WILL BE MADE FOR THIS WORK, UNLESS LISTED IN THE BID TAB.
- b) IN ACCORDANCE WITH PARAGRAPH 4.05 OF C-700, CONTRACTOR SHALL RESET ANY PERMANENT REFERENCE POINTS, PROPERTY CORNERS AND PROPERTY MONUMENTS THAT ARE DISTURBED DURING CONSTRUCTION. THESE POINTS AND MONUMENTS SHALL BE RESET BY A REGISTERED LAND SURVEYOR IN ACCORDANCE WITH STATE LAW. NO DIRECT PAYMENT WILL BE MADE FOR THIS WORK.

4)UNDERGROUND FACILITIES:

- a) INFORMATION REGARDING UNDERGROUND FACILITIES IS APPROXIMATE AND WAS COMPILED USING INFORMATION PROVIDED BY THE FACILITY OWNER. CONSULT PARAGRAPH 4.04 OF C-700 FOR FURTHER INFORMATION.
- b) UNLESS BORED, ALL UNDERGROUND UTILITIES (INCLUDING THE CONTRACTOR'S WORK) THAT CROSS UNDER PROPOSED STREET PAVEMENTS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF THE NEW PAVEMENT.

5)WATER, STORM & SANITARY SEWER:

- a) WATER CAN BE PURCHASED FROM THE CITY'S WATER UTILITIES DEPARTMENT.
- b) ALL MANHOLES, VALVE LIDS, METER LIDS, FIRE HYDRANTS AND AIR RELIEF ASSEMBLIES WITHIN THE CONSTRUCTION LIMITS SHALL BE RELOCATED OR ADJUSTED TO GRADE BY THE CONTRACTOR IN ACCORDANCE WITH THE SPECIFICATIONS. ALL VALVE RISERS IN PAVEMENT (WHETHER ADJUSTED, REPLACED OR PLACED) SHALL BE CAST IRON AND CONFORM TO THE SPECIFICATIONS. NO DIRECT PAYMENT WILL BE MADE FOR THIS WORK, UNLESS LISTED IN THE BID TAB.
- c) CONTRACTOR SHALL PROVIDE BYPASS PUMPING OF SEWAGE FLOWS AROUND EACH SEGMENT OF PIPE THAT IS TO BE REPLACED OR REFURBISHED. CONTRACTOR SHALL HAVE ALL MATERIALS, EQUIPMENT AND LABOR NECESSARY TO COMPLETE WORK ON THE PIPE SEGMENT PRIOR TO ISOLATING THE SEWER SEGMENT AND BEGINNING BYPASS PUMPING OPERATIONS. NO DIRECT PAYMENT WILL BE MADE FOR THIS WORK, UNLESS LISTED IN THE BID TAB.

6)ENVIRONMENTAL & SAFETY:

- a) CONTRACTOR SHALL USE ADEQUATE DUST CONTROL MEASURES DURING ALL PHASES OF THE WORK. CONSULT SECTION 1145 IN DIVISION 1.
- b) SILTATION AND EROSION CONTROL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EROSION CONTROL SYSTEMS, REPLACING DAMAGED OR FAILED EROSION CONTROL DEVICES AND INSPECTING THE SITE IN ORDER TO REPAIR THE EROSION CONTROL SYSTEMS WITHIN 24 HOURS AFTER A SIGNIFICATION RAIN EVENT. GRADING ADJACENT TO PAVEMENTS SHALL BE LEFT THREE INCHES BELOW THE TOP OF PAVEMENT UNTIL IMMEDIATELY BEFORE SOD OR SEED IS PLACED. EROSION AND SEDIMENT CONTROL MUST BE IN PLACE PRIOR TO THE DISTURBANCE OF THE GROUND. FIELD ADJUSTMENTS TO EROSION AND SEDIMENT CONTROL MAY BE REQUIRED DEPENDING ON THE SITE CONDITIONS.
- c) UNLESS WAIVED IN SECTION 1010, CONTRACTOR SHALL MAINTAIN THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) ON SITE IN ACCORDANCE WITH DNR REGULATIONS.
- d) PROPERTY MAINTENANCE INFORMATION CAN BE FOUND IN SECTION 1145 OF DIVISION 1.

7) GRADING, REMOVALS & DAMAGED ITEMS:

- a) INFORMATION ON SALVAGED MATERIAL CAN BE FOUND IN SECTION 1150 OF DIVISION 1.
 - b) NO BURNING IS ALLOWED ON THE SITE.
 - c) DRIVEWAYS, PARKING LOTS, SIDEWALKS, FENCES, IRRIGATION SYSTEMS AND OTHER ITEMS DISTURBED OR DAMAGED BY THE CONTRACTOR SHALL BE RESTORED AT THE CONTRACTOR'S EXPENSE TO A CONDITION EQUAL TO OR BETTER THAN EXISTING BEFORE DAMAGE OCCURRED. UNLESS WAIVED BY OWNER, ALL ITEMS REQUIRING REPLACEMENT SHALL BE REPLACED WITH NEW MATERIALS, AND ALL MATERIALS ARE SUBJECT TO OWNER'S APPROVAL. NO DIRECT PAYMENT WILL BE MADE FOR THIS WORK, UNLESS LISTED IN THE BID TAB.
 - d) ALL FENCE REPLACEMENT SHOULD BE RELOCATED TO THE PROPERTY LINES, UNLESS THE EXISTING FENCE WAS LOCATED INSIDE OF THE PROPERTY LINES. FENCE INSIDE OF PROPERTY LINES SHOULD BE PLACED IN ITS ORIGINAL LOCATION. GATES AND FENCE CORNERS SHALL BE RE-ESTABLISHED AT THE ORIGINAL LOCATIONS, UNLESS INDICATED BY THE DRAWINGS. REMOVALS SHALL BE AS SHOWN ON THE DRAWINGS OR AS APPROVED BY OWNER. REMOVALS NOT APPROVED BY OWNER WILL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
 - e) ROOF DRAINS, UNDER DRAINS, SEPTIC LINES AND OTHER SMALL DRAINAGE LINES NOT SHOWN ON THE DRAWNGS THAT ARE UNCOVERED OR DAMAGED SHALL BE REPAIRED, AND THE POINT OF DISCHARGE SHALL BE PLACED NO CLOSER THAN FIVE FEET TO ANY ADJOINING PROPERTY LINE INCLUDING THE RIGHT-OF-WAY LINE (SECTION 16-413 OF THE CODE OF ORDINANCES). UNLESS DIRECTED BY THE CITY ENGINEER, NO DRAIN LINES SHALL BE CONNECTED TO THE STORM SEWER SYSTEM. MATERIALS AND LOCATION ARE SUBJECT TO OWNER'S APPROVAL. IF NO UNIT PRICE IS IN THE BID, THEN PAYMENT WILL BE NEGOTIATED PER THE CONTRACT DOCUMENTS.
 - f) MATERIALS THAT MAY BE CLASSIFIED AS UNSUITABLE OR REQUIRE UNDERGRADING SHALL BE DETERMINED BY THE OWNER OR THE OWNER'S REPRESENTATIVE. CONTRACTOR SHALL NOT MAKE THIS DETERMINATION.
- 8) TRAFFIC:
- a) UNLESS DIRECTED IN THE CONTRACT DOCUMENTS OR DRAWNGS, CONTRACTOR SHALL MAINTAIN TRAFFIC AND PEDESTRIAN ACCESS AT ALL TIMES.
 - b) APPROPRIATE TRAFFIC CONTROL DEVICES, SIGNAGE AND PAVEMENT MARKINGS SHALL BE ESTABLISHED AND MAINTAINED THROUGHOUT THE PROJECT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND THE MUTCD.

ADDITIONAL GENERAL NOTES:

1) ALL TREES TO BE GRUBBED ARE MARKED THUS "X". SPARE ALL TREES THAT ARE MARKED DND (DO NOT DISTURB) OR ANY TREES NOT MARKED AT ALL. EXCEPTIONALLY GOOD TREES SHALL BE SPARED BY ADJUSTING BACKSLOPE LINES DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER. ALL TREES WITHIN THE CONSTRUCTION LIMITS TO BE SAVED SHALL HAVE HEIR TRUNKS AND ROOT ZONE PHYSICALLY PROTECTED PRIOR TO CONSTRUCTION OPERATIONS BY METHODS APPROVED BY THE ENGINEER.

2) THE CONTRACTOR SHALL POTHOLE ALL UTILITY CROSSINGS PRIOR TO CONSTRUCTION OF ANY PORTION OF THE STORM SEWER, UNDERDRAINS, CONDUIT, AND ANY OTHER SUBSURFACE ELEMENTS OF THE PROJECT. THIS SURVEY INFORMATION SHALL BE FORWARDED TO THE ENGINEER FOR REVIEW. THE CONTRACTOR SHALL NOT BEGIN CONSTRUCTION ON ANY SUBSURFACE ELEMENT ON THE PROJECT WITHOUT THE APPROVAL OF THE ENGINEER. THIS ITEM SHALL BE SUBSIDIARY TO OTHER BID ITEMS.

Accepted
Record Drawings

These plans have been reviewed for
accuracy and are accepted for basic
conformance to the approved
construction drawings.

olsson

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RECORD DRAWING



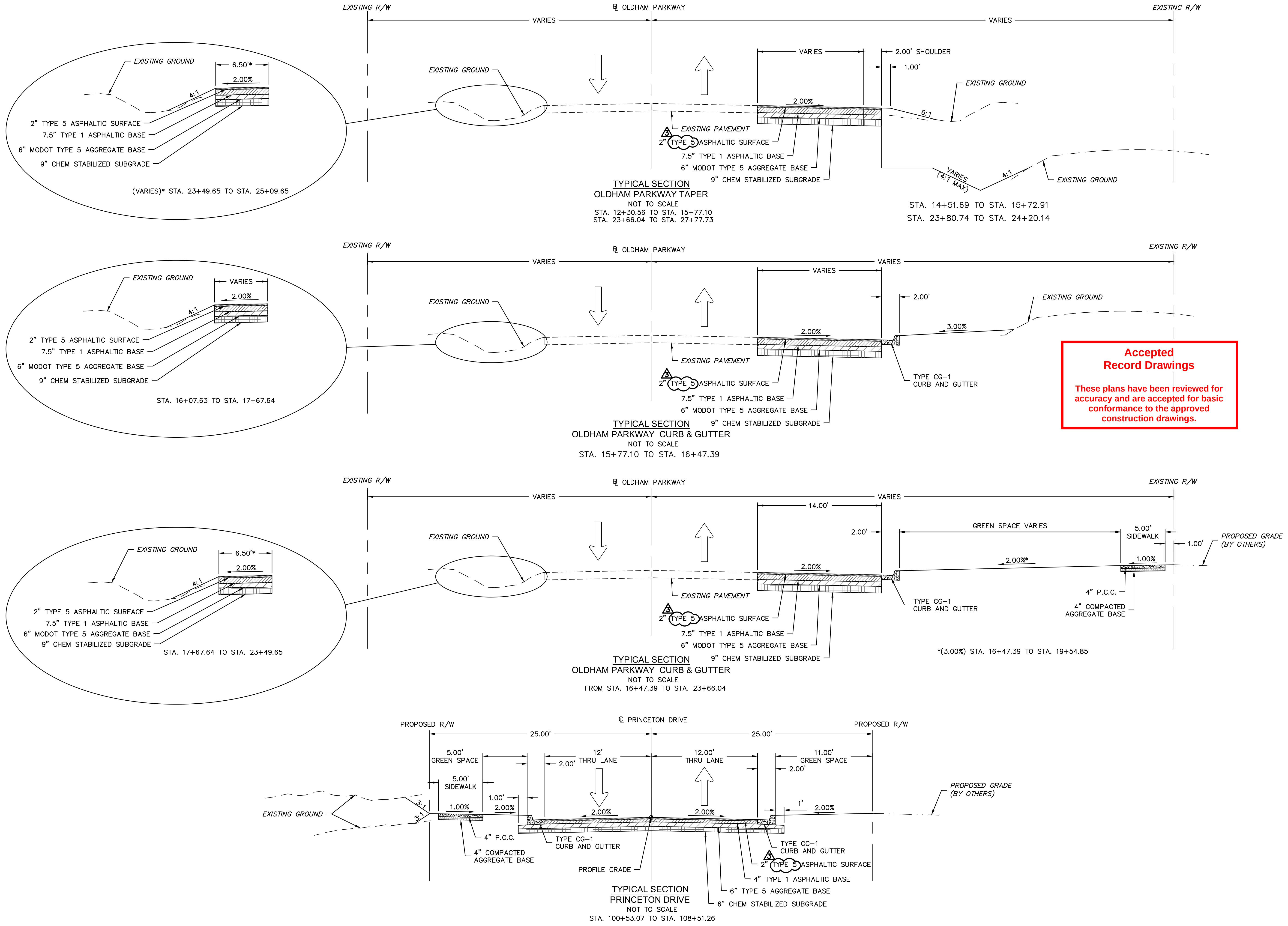
"NOT AS BUILT"

REV. NO.	DATE	REVISED DESCRIPTION	BY	REVISIONS

GENERAL NOTES	
OREILLY DEVELOPMENT SENIOR LIVING FACILITY OLDHAM PARKWAY & PRINCETON DRIVE IMPROVEMENTS	
LEE'S SUMMIT, MISSOURI	2019

C.O.A. NO.:	001692
DRAWN BY:	AS
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DWG: F:\2018\1001-1500\018-1450\40-Design\AutoCAD\Final Plans\Sheets\RD\BR\GENERAL\T_TYP_81450.dwg
DATE: Jul 25, 2019 9:21am
USER: asaavedra
XREFS: T_PTBK_81450



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TEL 913.381.1170
FAX 913.381.1174
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RECORD DRAWING

STATE OF MISSOURI
RYAN B. FLEMING
NUMBER
PE-2002003161
7-24-19
PROFESSIONAL ENGINEER

"NOT AS BUILT"

BY	REVISIONS DESCRIPTION	DATE	REV. NO.
	ENGR. REVIEW COMMENTS	07/19/2019	1

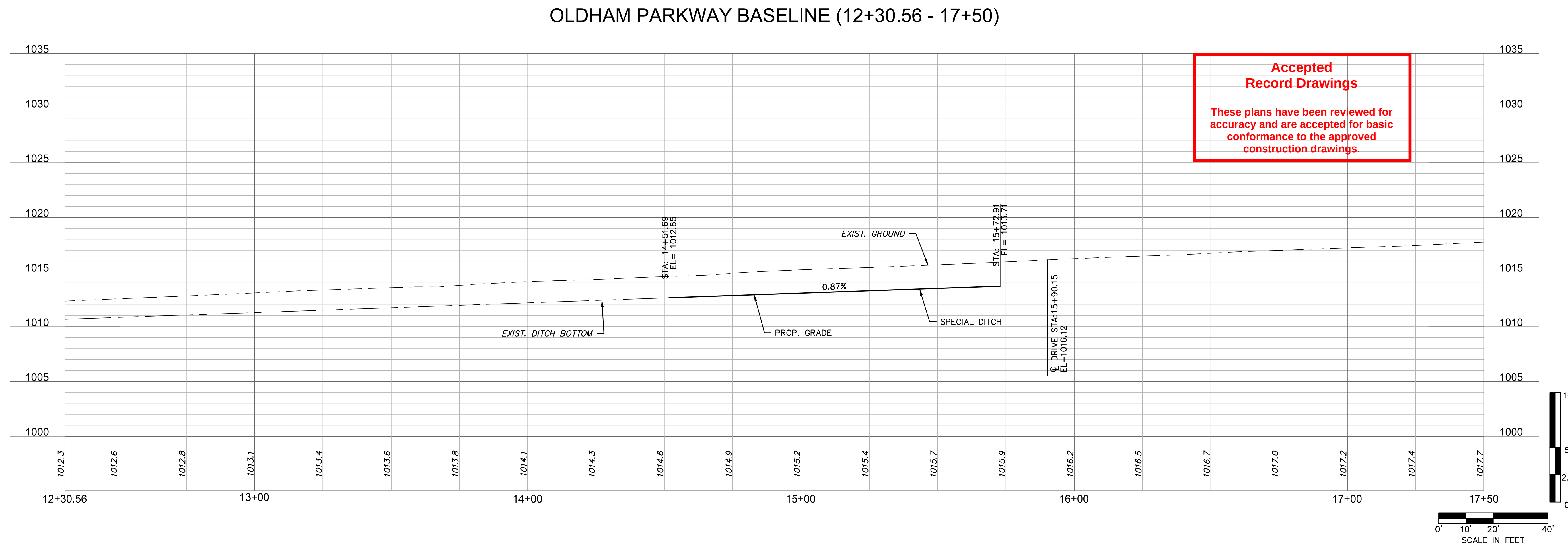
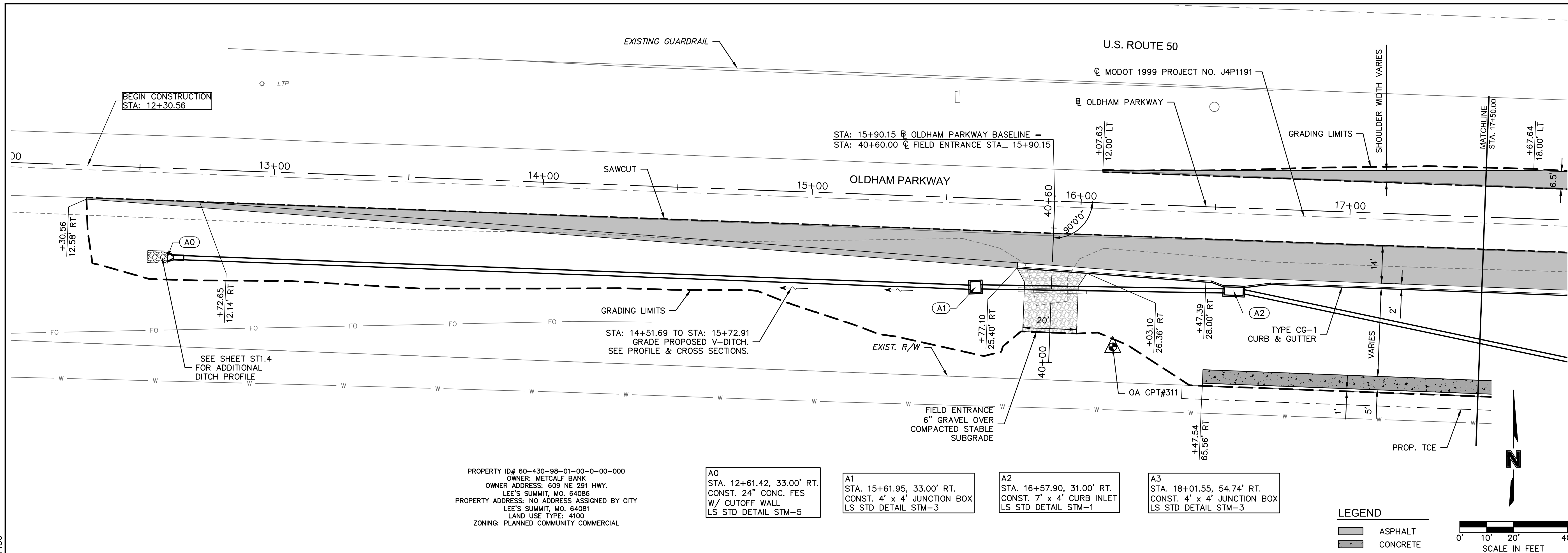
TYPICAL SECTIONS

OREILLY DEVELOPMENT SENIOR LIVING FACILITY
OLDHAM PARKWAY & PRINCETON DRIVE IMPROVEMENTS

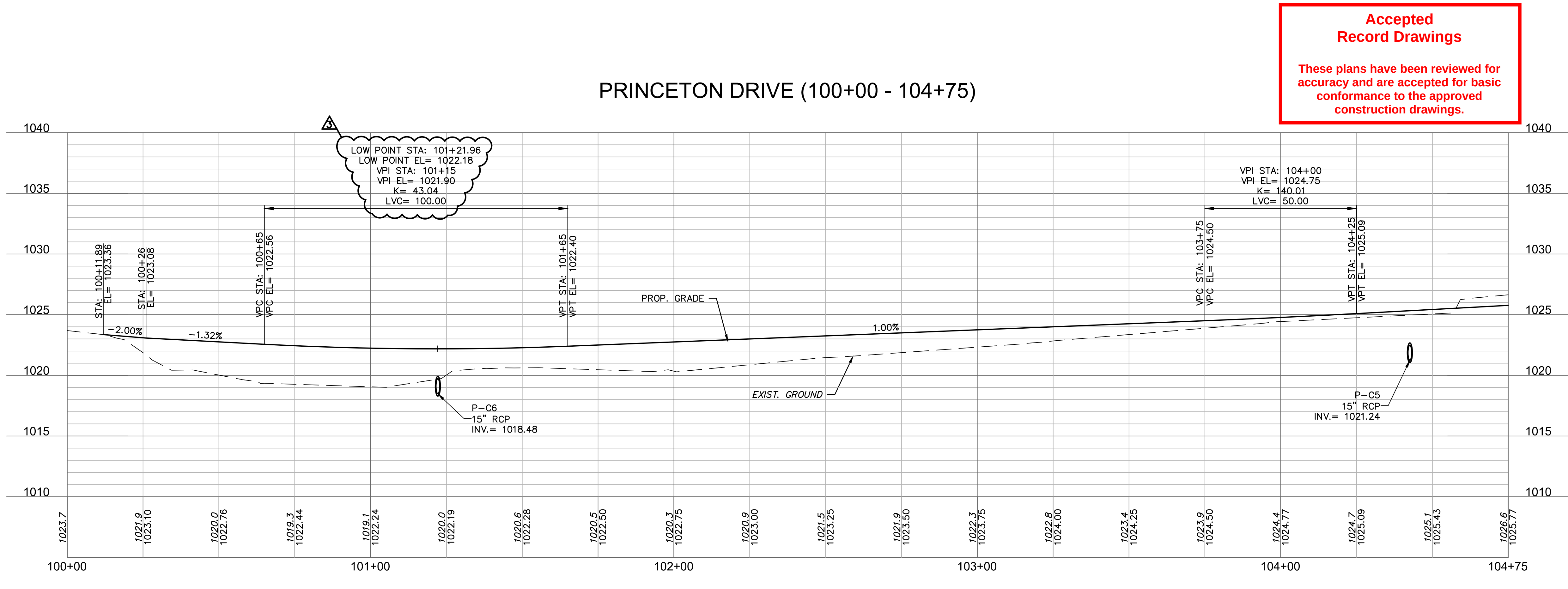
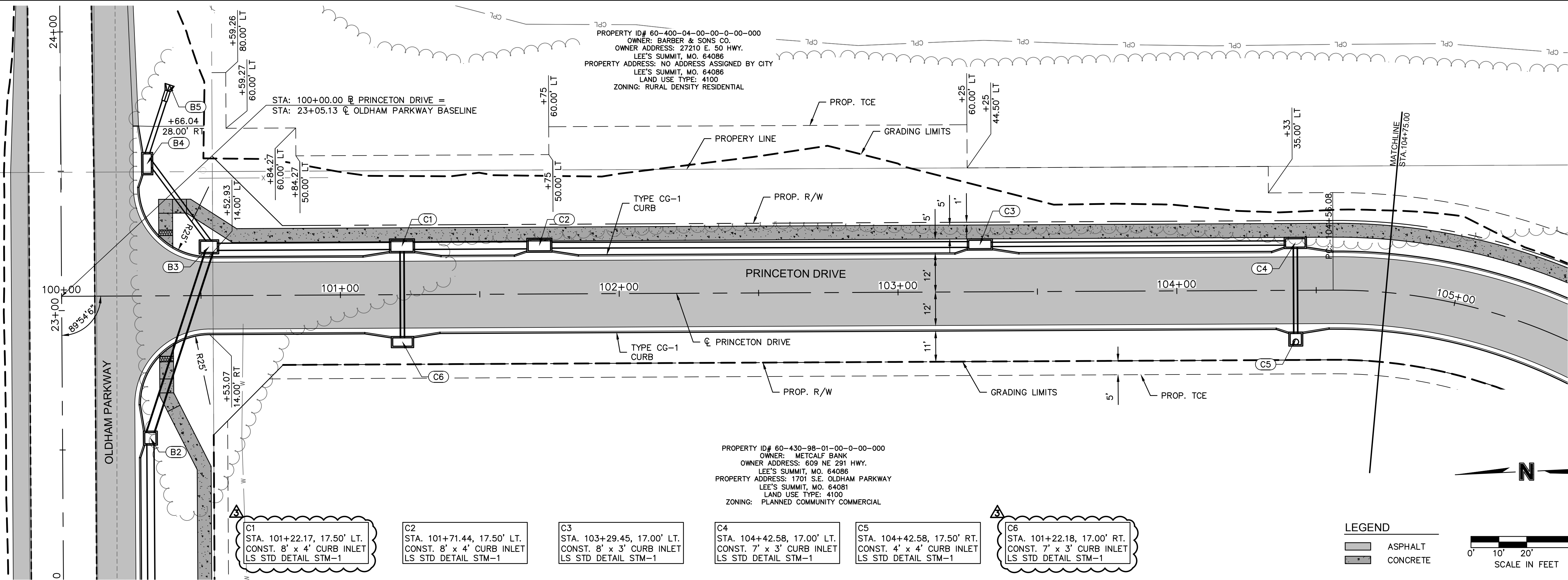
LEE'S SUMMIT, MISSOURI

C.O.A. NO.: 001592
DRAWN BY: AS
CHECKED BY: JKL
APPROVED BY: RBE
QA/QC BY: JKL/RBE
PROJECT NO.: 018-1450
DWG NO.: T_TYP_81450
DATE: 07.19.19

SHEET
T6 OF 70



DWG: F:\2018\1001-1500\018-1450\40-Design\AutoCAD\Final Plans\Sheets\RD\B\PLAN & PROFILES\T_RPP04_81450.dwg
DATE: Jul 25, 2019 9:23am XREFS: t_pbase_81450 t_ppatt_81450 v_topo_81450 T_PTBK_81450
USER: osocovedra



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RECORD DRAWING

STATE OF MISSOURI
RYAN B. FLEMING
NUMBER
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1-24-19
PROFESSIONAL ENGINEER

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REV.	NO.	DATE	DESCRIPTION	BY
1	1	07/19/2019	ENGR. REVIEW COMMENTS	

PRINCETON DRIVE
PLAN & PROFILE

OREILLY DEVELOPMENT SENIOR LIVING FACILITY
OLDHAM PARKWAY & PRINCETON DRIVE IMPROVEMENTS

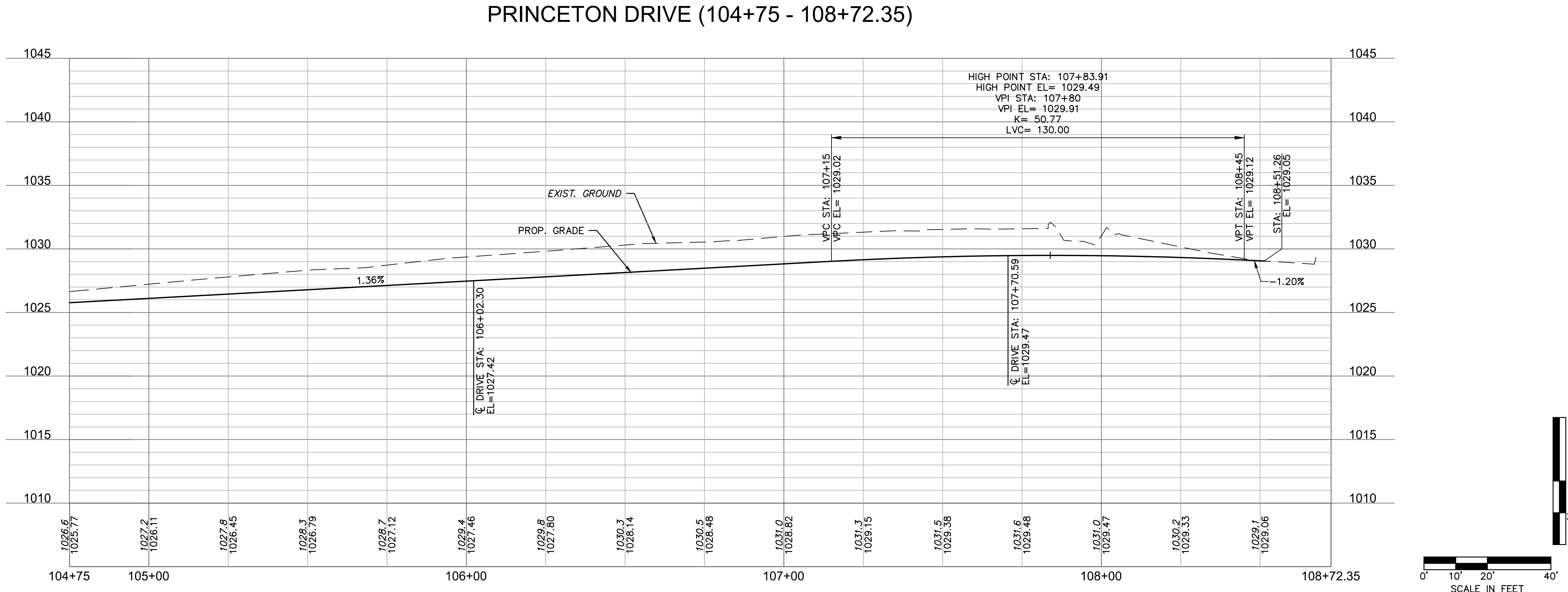
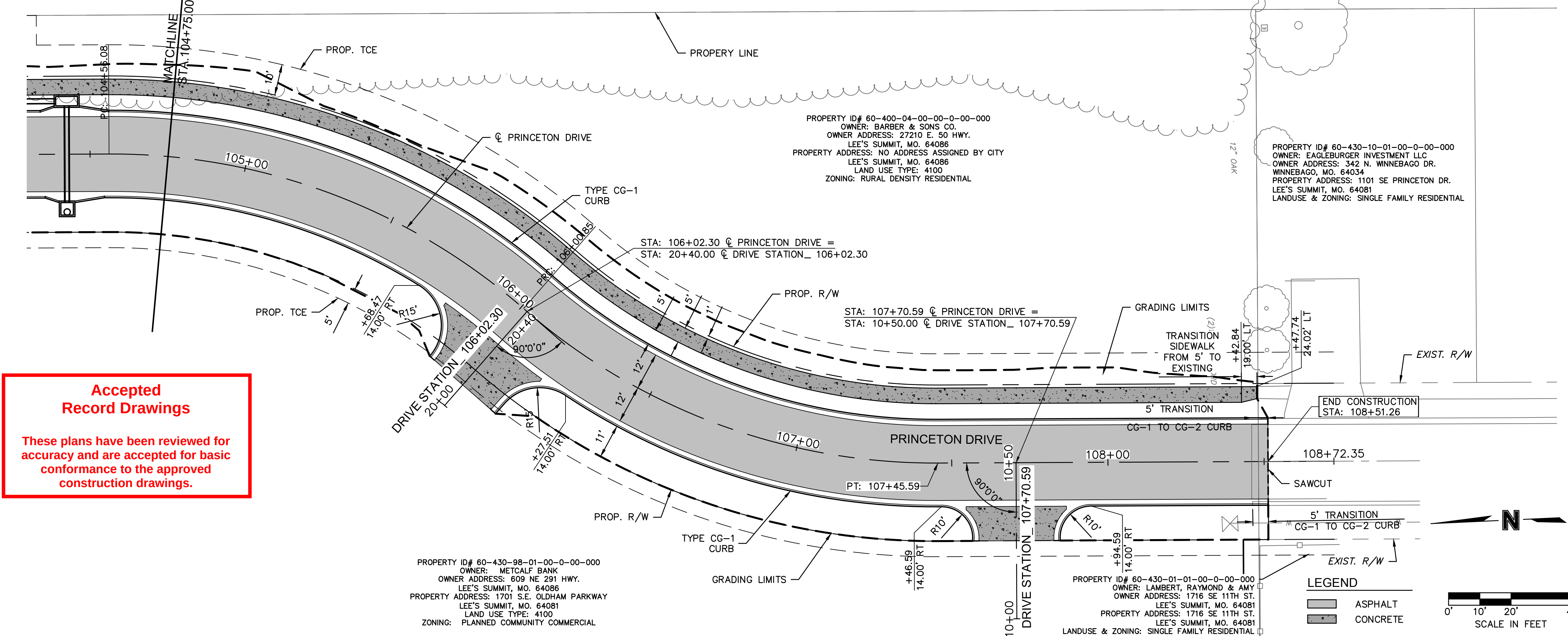
LEE'S SUMMIT, MISSOURI

2019

C.O.A. NO.: 001592
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CHECKED BY: JKL/RBE
APPROVED BY: RBE
QA/QC BY: JKL/RBE
PROJECT NO.: 018-1450
DWG NO.: T_RPP04_81450
DATE: 07.19.19

SHEET
T10 OF 70

USER: asaavedra
PUBLIC STORM



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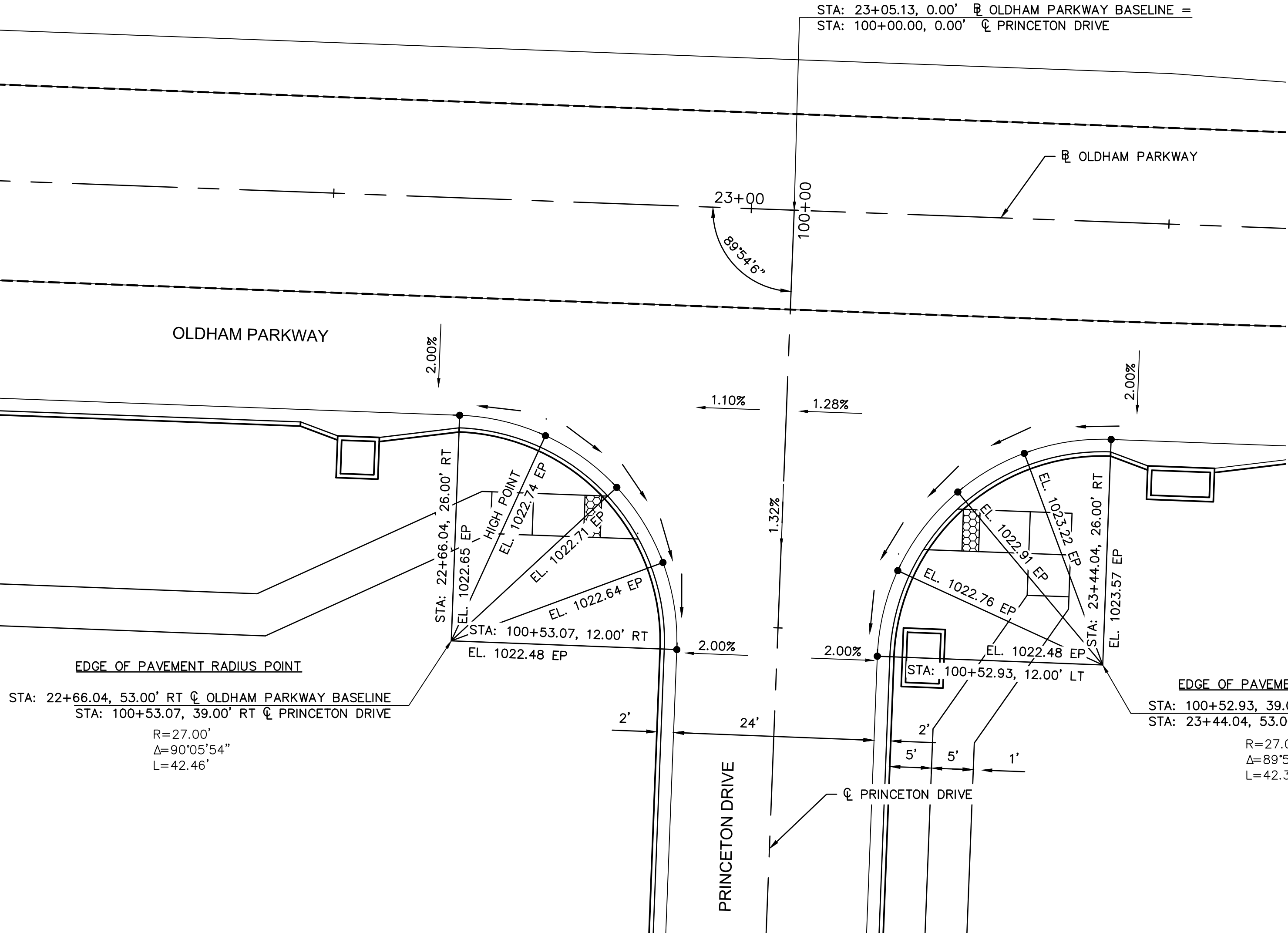
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PRINCETON DRIVE PLAN & PROFILE	
O'REILLY DEVELOPMENT SENIOR LIVING FACILITY OLDHAM PARKWAY & PRINCETON DRIVE IMPROVEMENTS	
LEE'S SUMMIT, MISSOURI	2019

C.O.A. NO.: 001592
DRAWN BY: AS
CHECKED BY: JKL
APPROVED BY: RBF
QA/QC BY: JKL/RBF
PROJECT NO.: 018-1450
DWG NO.: T_RPP05_81450
DATE: 07.19.19

SHEET
T11 OF 70

DWG: F:\2018\1001-1500\018



These plans have been reviewed for accuracy and are accepted for basic conformance to the approved construction drawings.

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Overland Park KS 66213-4750
FAX 913.381.1174

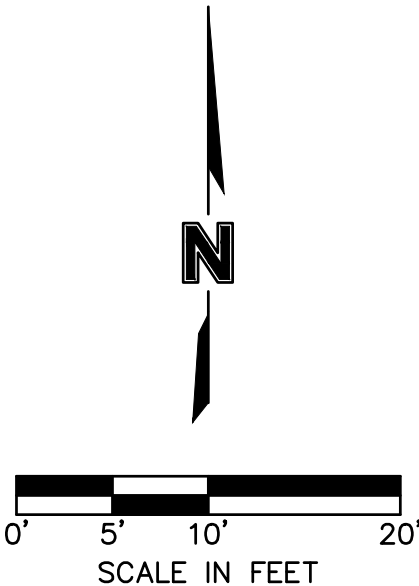
RYAN B.
FLEMING
NUMBER
PE-2002003161
7-24-19

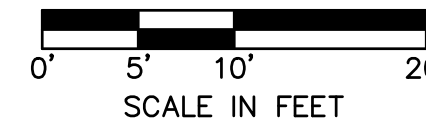
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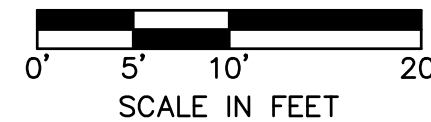
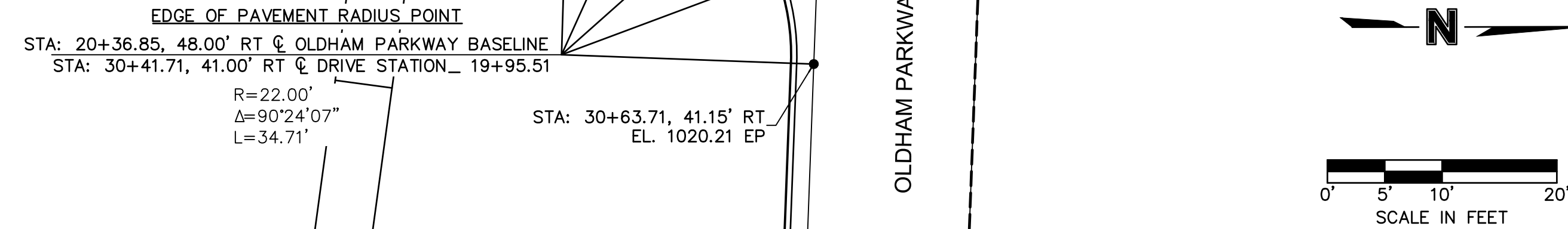
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APPROVED BY: RBF
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PROJECT NO.: 018-1450
DWG NO.: T_INT01_81450
DATE: 07.19.19

SHEET
T12 OF 70

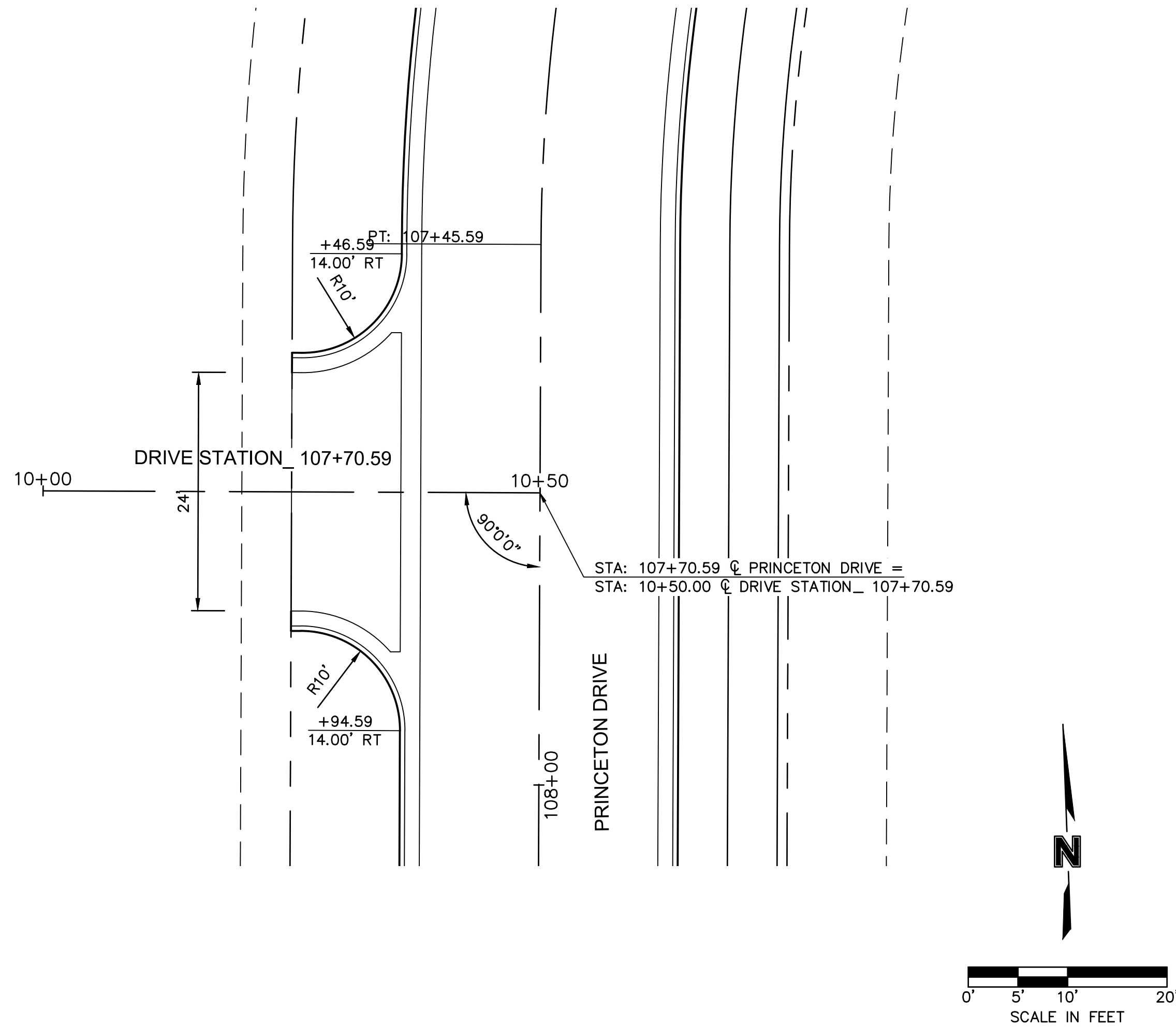
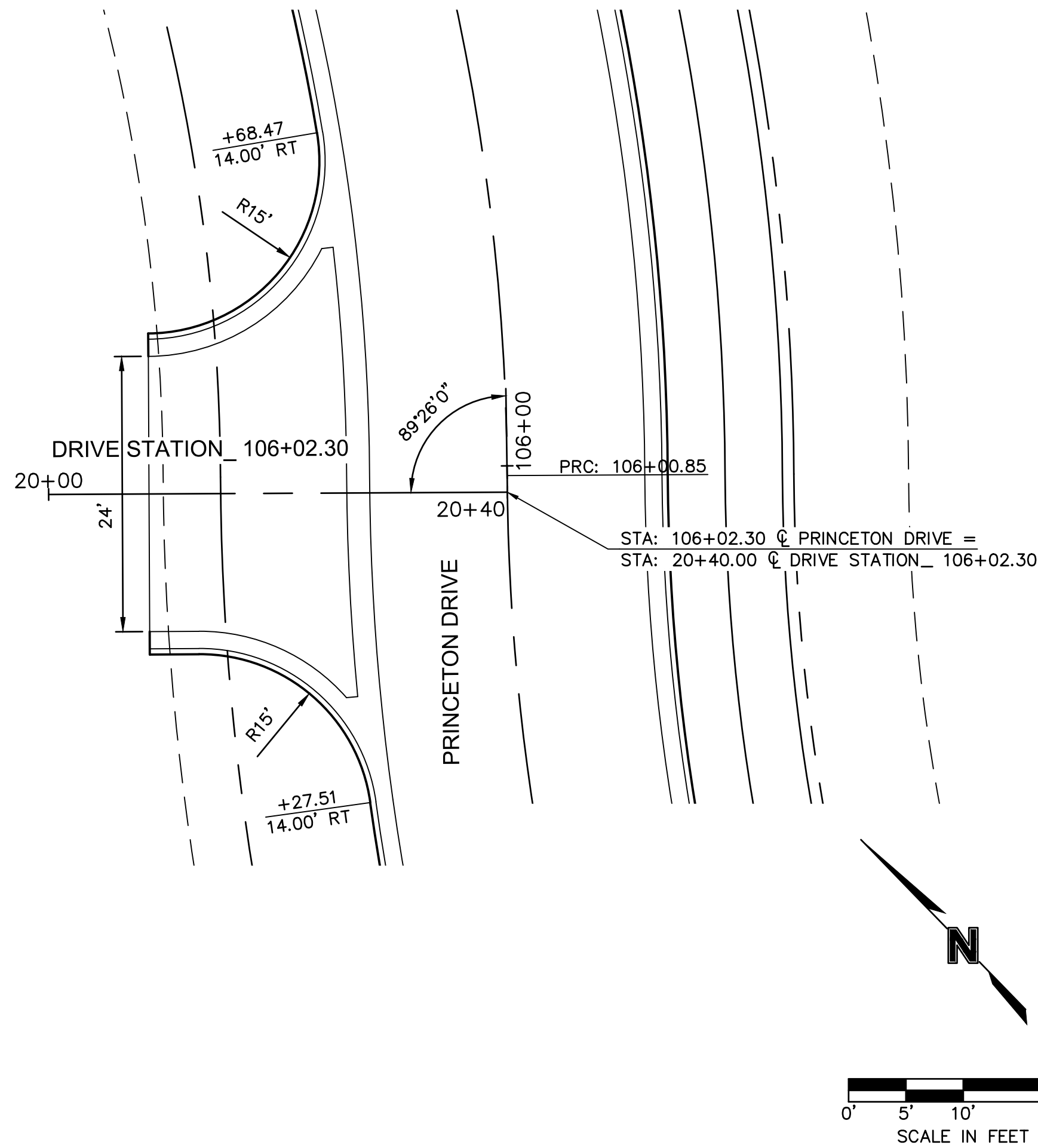




These plans have been reviewed for accuracy and are accepted for basic conformance to the approved construction drawings.



DRIVE LAYOUTS OREILLY DEVELOPMENT SENIOR LIVING FACILITY OLDHAM PARKWAY & PRINCETON DRIVE IMPROVEMENTS LEE'S SUMMIT, MISSOURI	C.O.A. NO.: 001592 DRAWN BY: AS CHECKED BY: JKL APPROVED BY: RBE QA/QC BY: JKL/RBF PROJECT NO.: 018-1450 DWG NO.: T DRW01_81450 DATE: 07.19.19		REV. NO.	DATE	REVISIONS DESCRIPTION	BY
SHEET T13 OF 70		2019 REVISIONS				



These plans have been reviewed for accuracy and are accepted for basic conformance to the approved construction drawings.

RECORD DRAWING



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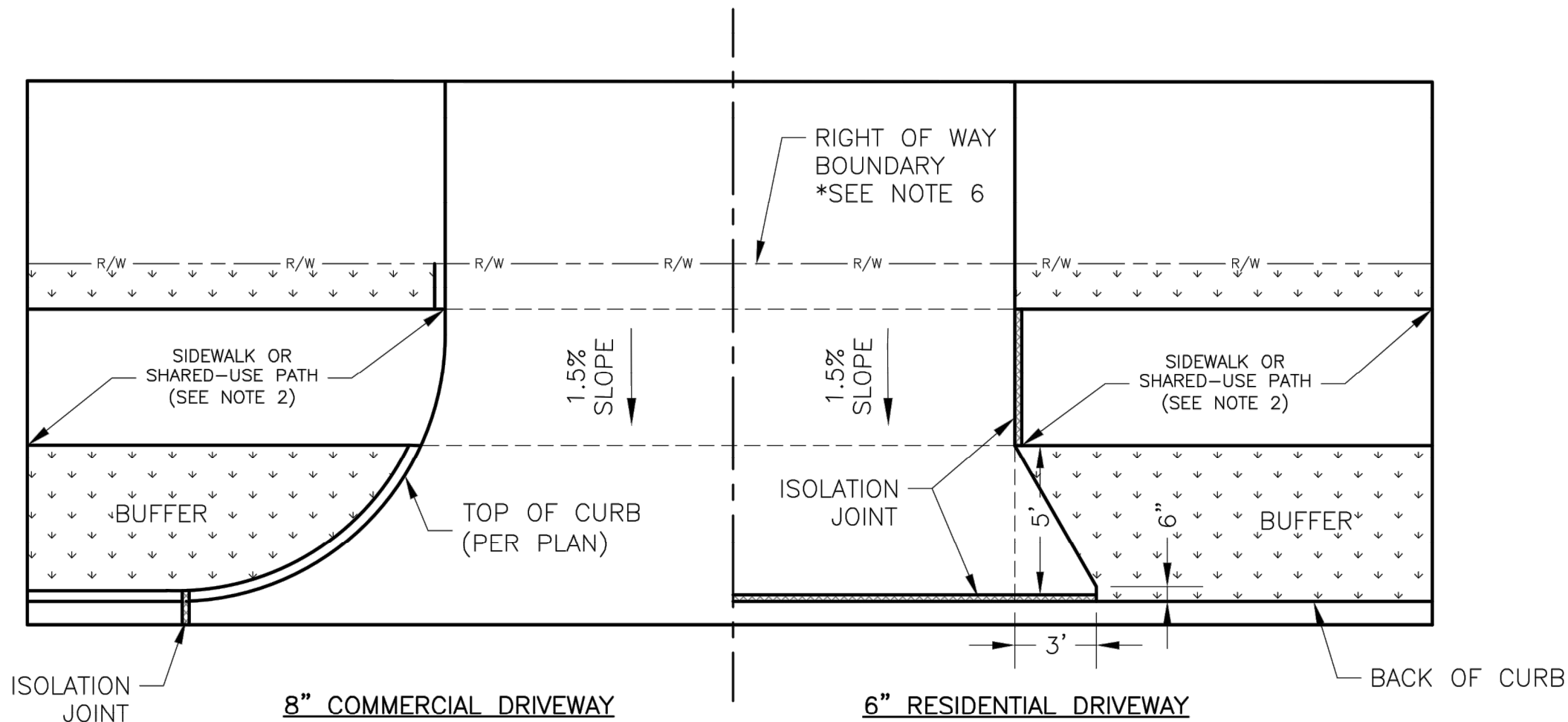


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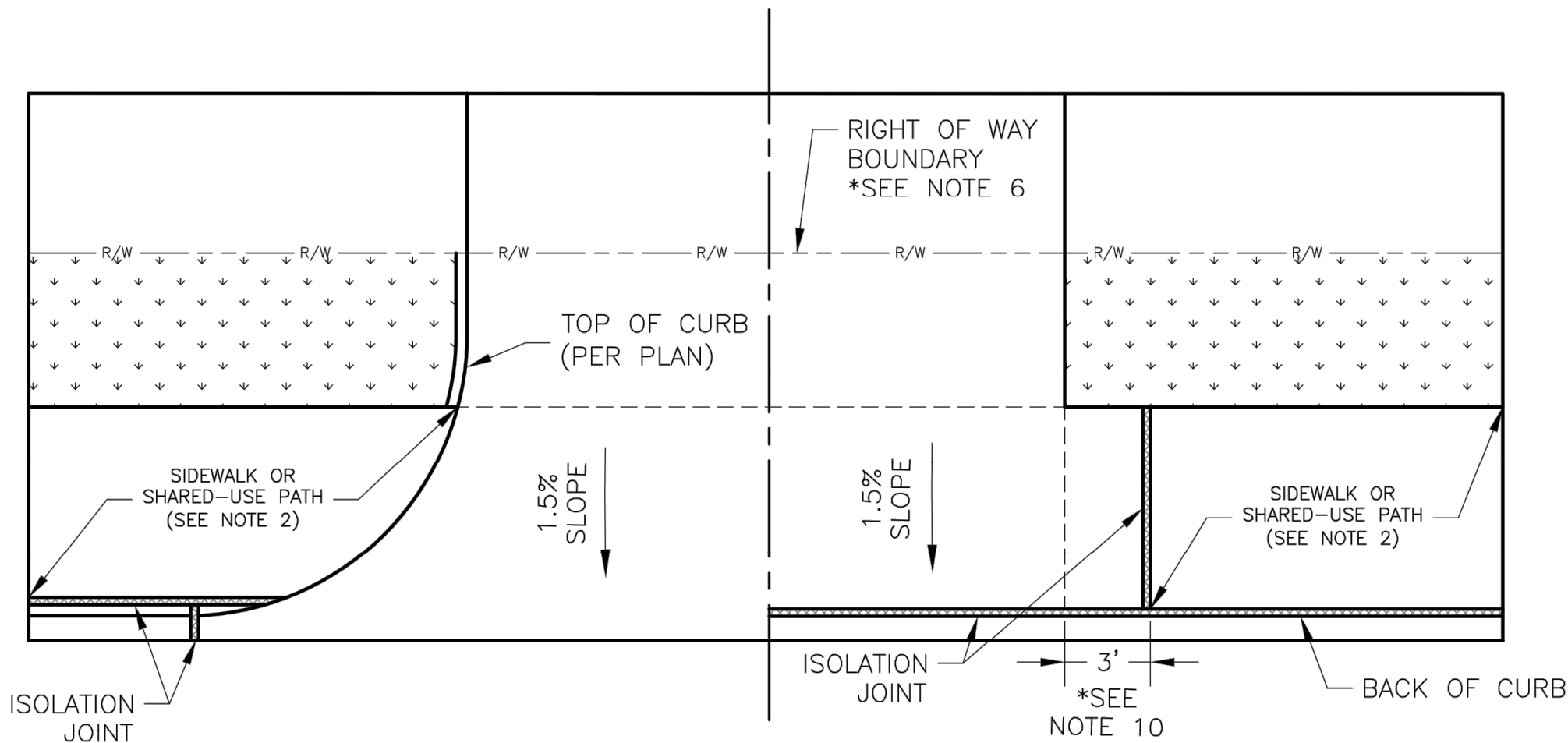
RECORD DRAWING

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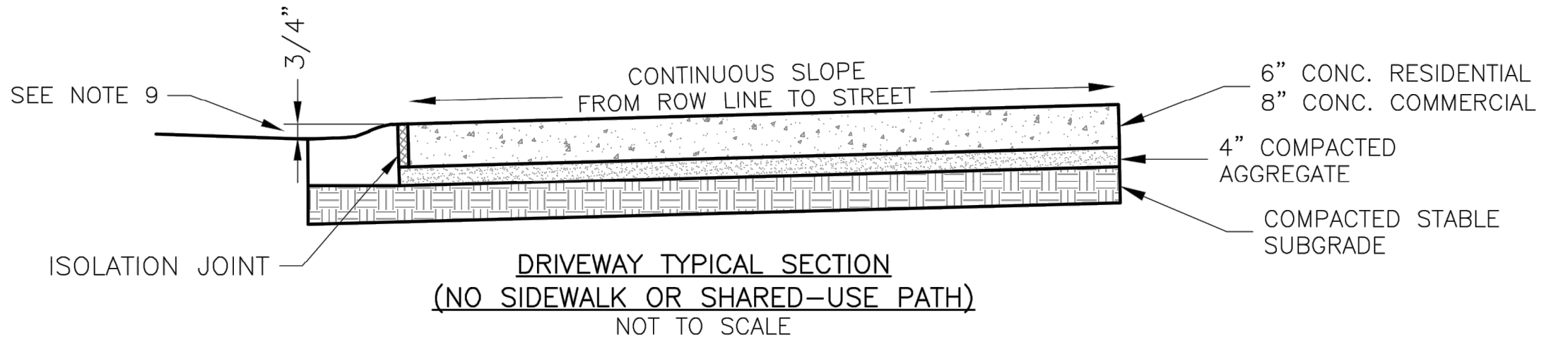
DRIVEWAY WITH BUFFER
NOT TO SCALE



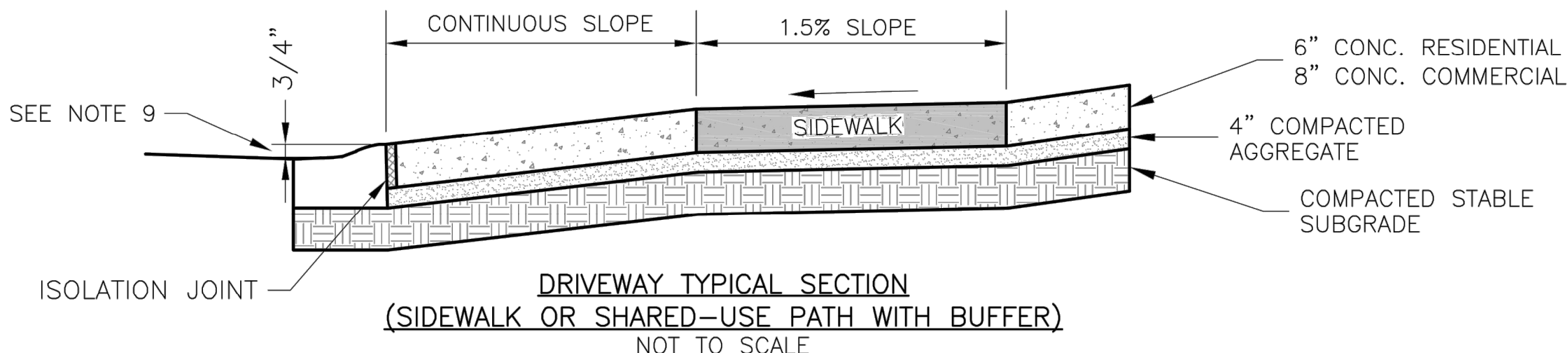
DRIVEWAY WITHOUT BUFFER
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GENERAL NOTES

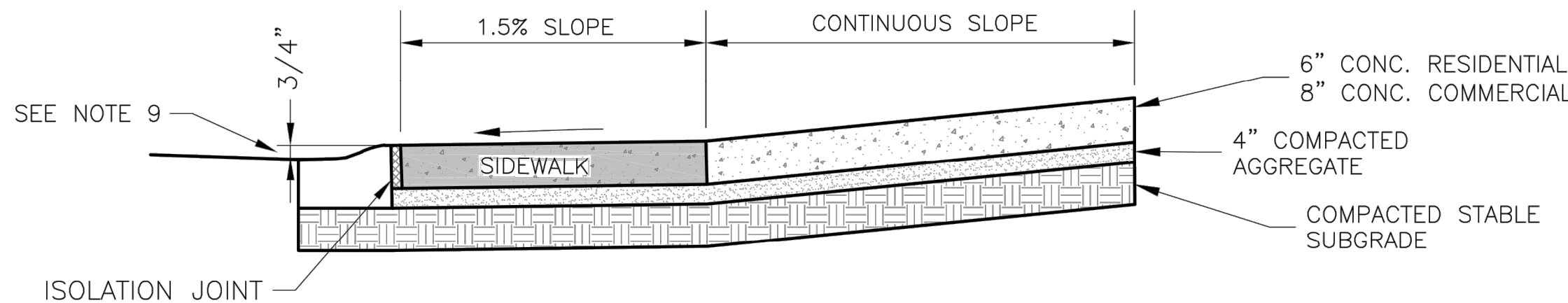
1. SUBGRADE SHALL BE STABLE, COMPACTED EARTH AND SHALL BE OVERLAYED WITH 4" COMPACTED DENSE GRADED AGGREGATE BASE.
2. ALL DRIVE APPROACHES SHALL MEET CURRENT PUBLIC RIGHT OF WAY ACCESSIBILITY GUIDELINES (PROWAG) FOR SLOPE REQUIREMENTS WHEN SIDEWALK IS REQUIRED (SEE ADA RAMP RETROFIT DETAIL GEN-3B, SIDEWALK/SHARED USE PATH RAMP AT DRIVEWAY DETAIL).
3. JOINT AT BACK OF CURB LINE SHALL BE AN ISOLATION JOINT FOR RESIDENTIAL DRIVEWAYS.
4. KCMMB 4K CONCRETE MIX IS REQUIRED FOR ALL CURBS.
5. COMMERCIAL DRIVEWAYS, IN THE PUBLIC RIGHT OF WAY, SHALL BE KCMMB 4K CONCRETE MIX.
6. RESIDENTIAL DRIVEWAYS, IN THE PUBLIC RIGHT OF WAY, KCMMB 4K CONCRETE MIX IS RECOMMENDED. OTHER CONCRETE MIXES NEEDS TO BE APPROVED BY CITY INSPECTOR.
7. A JOINT MUST BE INSTALLED AT THE RIGHT OF WAY BOUNDARY FOR PROPERTY DELINEATION.
8. WHITE CURING COMPOUND MUST BE APPLIED UNIFORMLY TO THE CONCRETE SURFACE IMMEDIATELY AFTER FINAL FINISHING.
9. 3/4" FROM TOP OF CURB TO FLOWLINE AT DRIVEWAY (TYPE CG-1 CURB ONLY). MUST MAINTAIN ORIGINAL FLOWLINE OF CURB.
10. SIDEWALK ADJOINING CURB SHALL BE 6" THICK, EXTENDING 3' FROM THE DRIVEWAY.
11. THE MAXIMUM WIDTH OF A RESIDENTIAL DRIVEWAY IS 36 FEET WITHIN THE RIGHT OF WAY.



DRIVEWAY TYPICAL SECTION
(NO SIDEWALK OR SHARED-USE PATH)
NOT TO SCALE



DRIVEWAY TYPICAL SECTION
(SIDEWALK OR SHARED-USE PATH WITH BUFFER)
NOT TO SCALE



DRIVEWAY TYPICAL SECTION
(SIDEWALK OR SHARED-USE PATH WITHOUT BUFFER)
NOT TO SCALE

Accepted
Record Drawings

These plans have been reviewed for
accuracy and are accepted for basic
conformance to the approved
construction drawings.

LEE'S SUMMIT
MISSOURI

PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO
Sheet Name:

DRIVEWAY DETAIL

Drawn By: MJF
Checked By: DL
Date: 04/17
Project:

GEN-1

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RECORD DRAWING



"NOT AS BUILT"

BY	REVISIONS DESCRIPTION	DATE	REV. NO.

REVISIONS

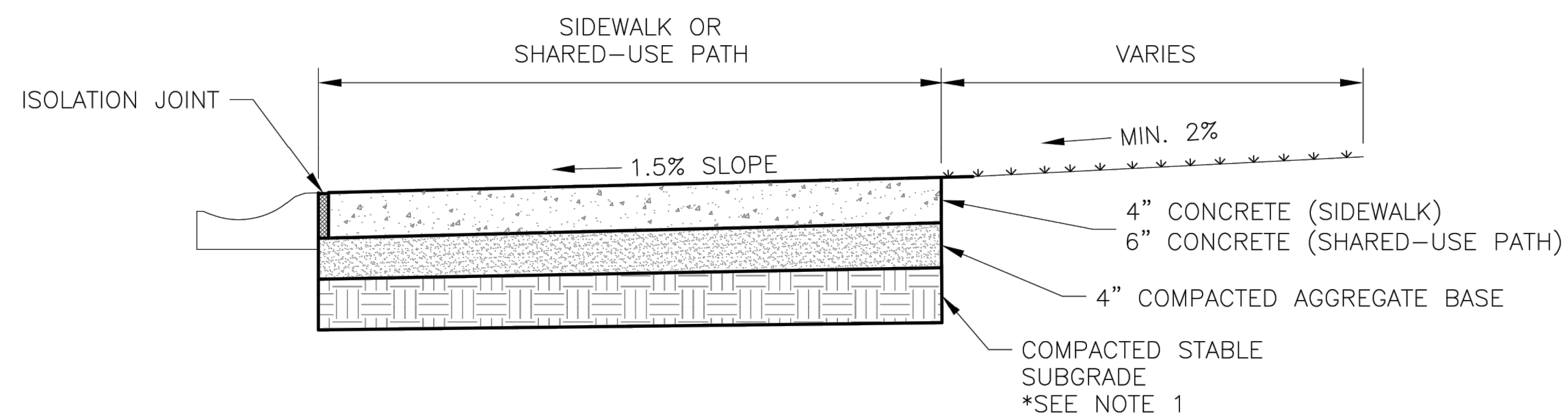
STANDARD DETAILS	2019
OREILLY DEVELOPMENT SENIOR LIVING FACILITY OLDHAM PARKWAY & PRINCETON DRIVE IMPROVEMENTS	
LEE'S SUMMIT, MISSOURI	

C.O.A. NO.: 001592
DRAWN BY: AS
CHECKED BY: JKL
APPROVED BY: RBE
QA/QC BY: JKL/RBE
PROJECT NO.: 018-1450
DWG NO.: T_STD1_81450
DATE: 07.19.19

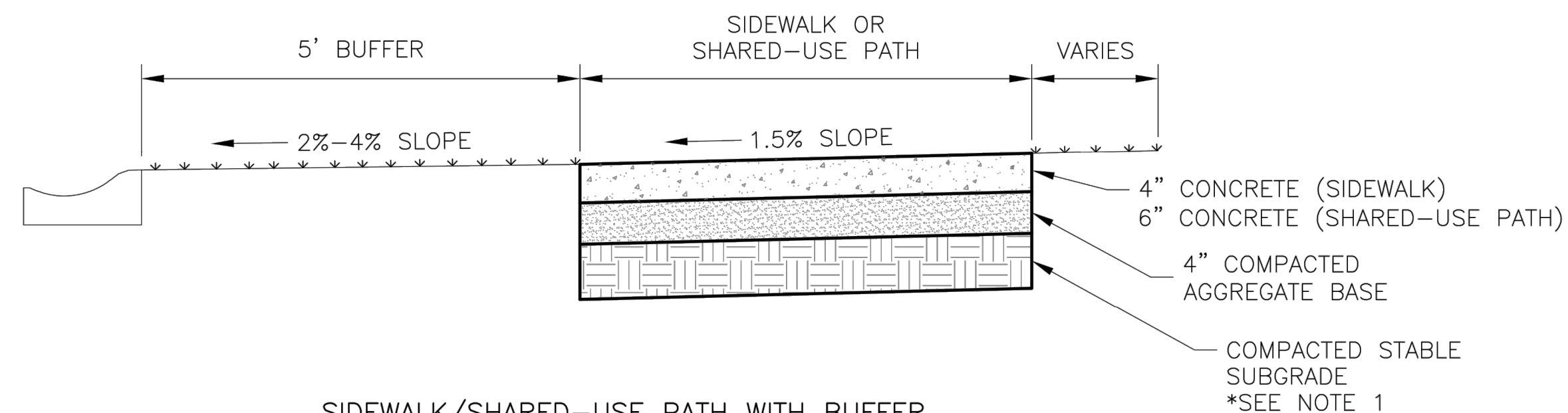
SHEET
T16 OF 70

**Accepted
Record Drawings**

These plans have been reviewed for accuracy and are accepted for basic conformance to the approved construction drawings.



SIDEWALK/SHARED-USE PATH WITHOUT BUFFER
NOT TO SCALE



SIDEWALK/SHARED-USE PATH WITH BUFFER
NOT TO SCALE

GENERAL NOTES:

1. SUBGRADE MUST BE OF STABLE, COMPACTED EARTH AND SHALL BE OVERLAYED WITH 4" COMPACTED DENSE GRADED AGGREGATE BASE.
2. 1.5% CROSS SLOPE MUST BE MAINTAINED THROUGH DRIVEWAYS.
3. KCMMB 4K CONCRETE MIX SHALL BE REQUIRED FOR ALL SIDEWALKS/SHARED-USE PATHS OR AS APPROVED BY THE CITY INSPECTOR.
4. ALL SIDEWALK/SHARED-USE PATHS SHALL MEET CURRENT PUBLIC RIGHT OF WAY ACCESSIBILITY GUIDELINES (PROWAG).
5. AN ISOLATION JOINT SHALL BE PLACED AT A MAXIMUM OF 150 FT. CONSTRUCTION JOINTS SHALL BE PLACED THE SAME WIDTH OF SIDEWALK/SHARED-USE PATHS, BUT NO GREATER THAN 10 FT.
6. AN ISOLATION JOINT SHALL BE PLACED WHERE THE SIDEWALK/SHARED-USE PATHS MEETS A RESIDENTIAL DRIVEWAY.
7. SHARED-USE PATHS WIDTH SHALL BE 10 FT. WIDE.
8. SIDEWALK/SHARED-USE PATHS FINISHING SHALL BE FULL BROOM FINISH OR AS DIRECTED BY CITY INSPECTOR.
9. WHITE CURING COMPOUND MUST BE APPLIED UNIFORMLY TO THE CONCRETE SURFACE IMMEDIATELY AFTER FINAL FINISHING.



LEE'S SUMMIT

MISSOURI

PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

SIDEWALK/SHARED-USE PATH DETAIL

Date: 04/17

Drawn By: MJF

Checked By: DL

GEN-2

STANDARD DETAILS

OREILLY DEVELOPMENT SENIOR LIVING FACILITY
WOLDHAM PARKWAY & PRINCETON DRIVE IMPROVEMENTS

LEE'S SUMMIT, MISSOURI

2019

REVISIONS

BY

SIONS DESCRIPTION

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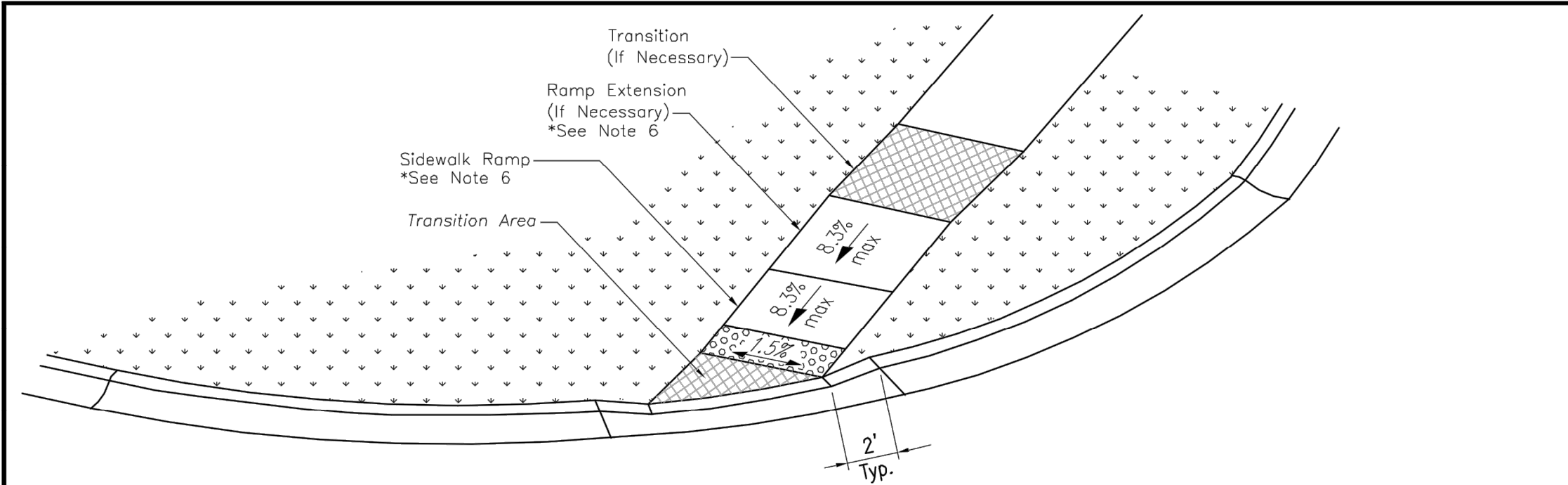
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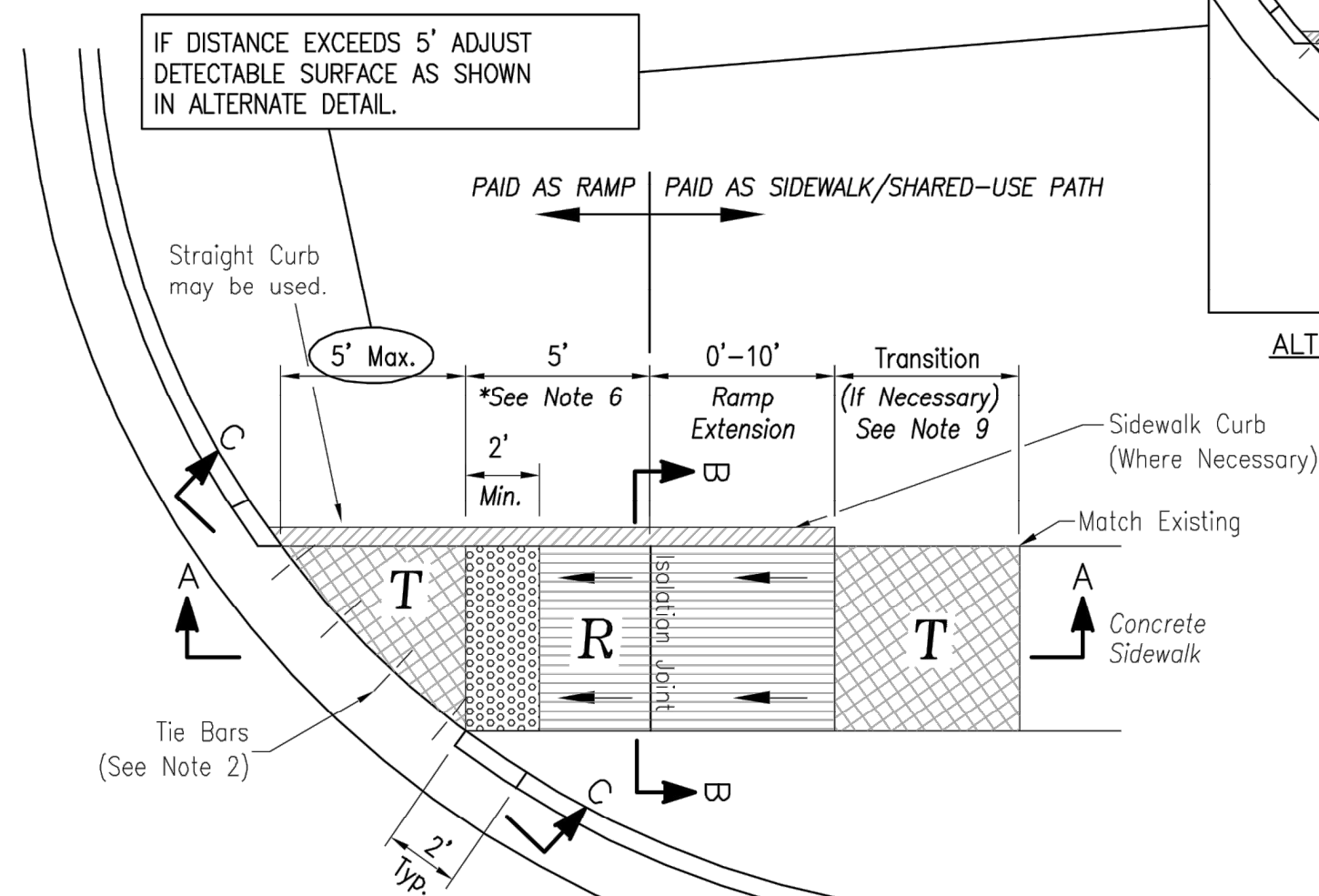
"NOT AS BUILT"

Olsson

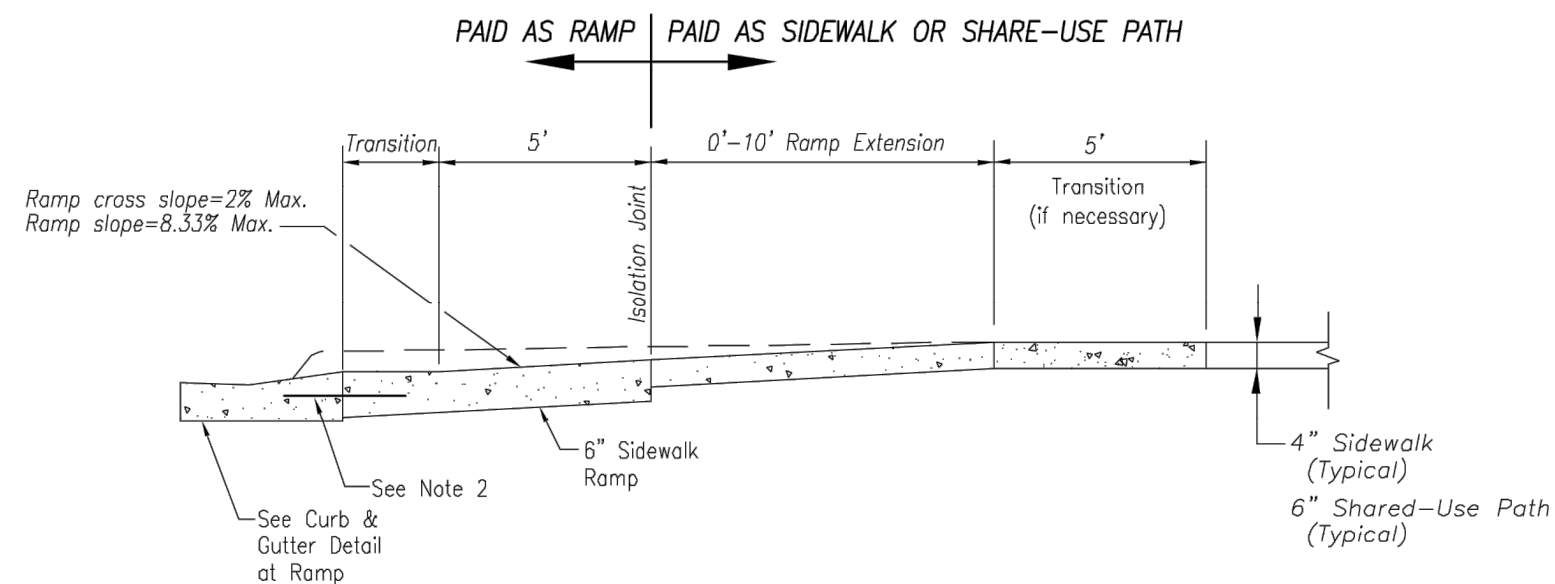
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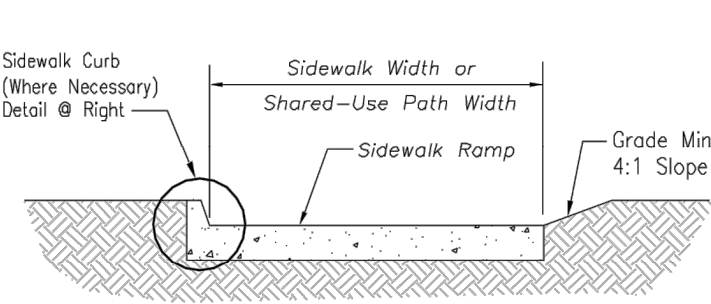
3-D VIEW TYPE A
SIDEWALK/SHARED-USE RAMP



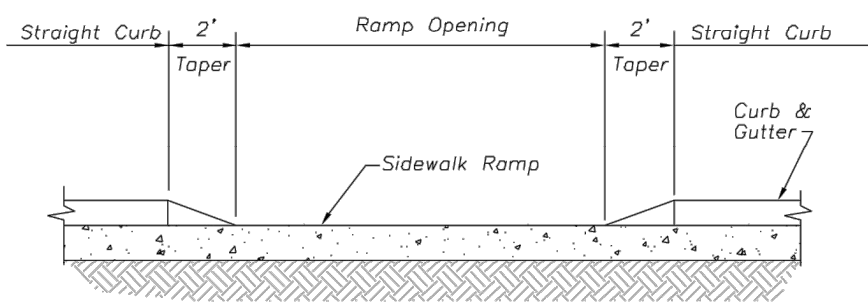
TYPE A SIDEWALK/SHARED-USE RAMP
Not to Scale



SECTION A-A

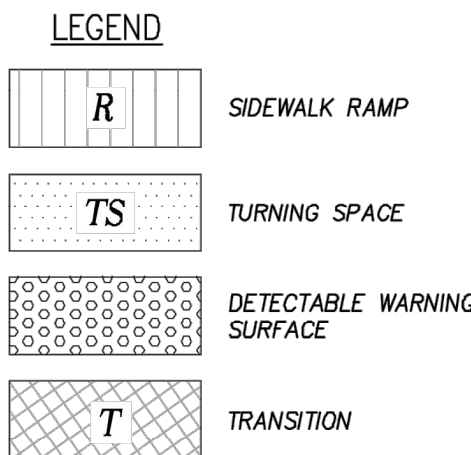


SECTION B-B



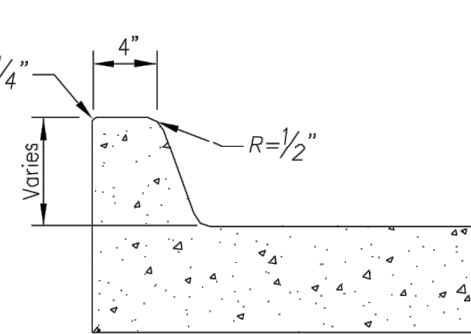
SECTION C-C

TYPE A & B SIDEWALK RAMP
Not to Scale

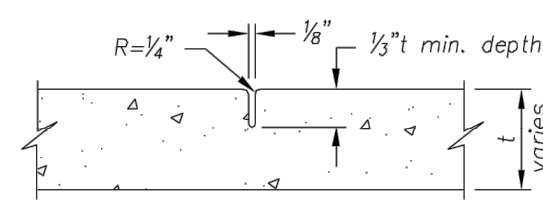


SIDEWALK/SHARED-USE PATH & SIDEWALK/SHARED-USE RAMP NOTES:

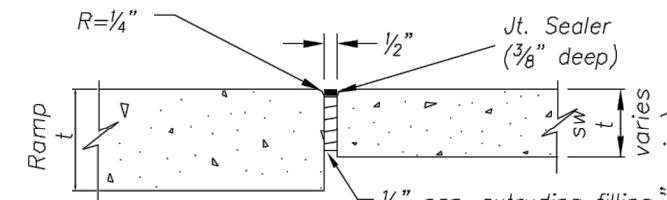
1. CURB RAMP OPENING, NOT INCLUDING FLARES, SHALL MATCH EXISTING SIDEWALK WIDTH AND OPENING SHALL BE AT LEAST 48" WIDE.
2. USE 18" LONG #4 EPOXY COATED TIE BARS @ 24" O.C. EMBED TIE BARS 9" IN EACH DIRECTION.
3. ALL RAMPS, SIDEWALKS, SHARED-USE PATHS SUBGRADE MUST BE OF STABLE, COMPACTED EARTH AND SHALL BE OVERLAYED WITH 4" COMPACTED DENSE GRADED AGGREGATE BASE.
4. LONGITUDINAL JOINT SPACING TO MATCH WIDTH OF SIDEWALK.
5. ISOLATION JOINTS SHALL BE PLACED WHERE WALK ABUTS DRIVEWAYS AND SIMILAR STRUCTURES, AND 150' CENTERS MAX.
6. ADA MAXIMUM RAMP SLOPE = 8.33%
ADA MAXIMUM CROSS SLOPE = 2.0%
*ROADWAY EXCEPTION: WHERE EXISTING ROAD PROFILE GRADE DOES NOT ALLOW RAMP TO MEET RAMP SLOPE REQUIREMENT OF 8.33% OR LESS, THE RAMP SHALL BE EXTENDED TO A LENGTH OF 15 FEET TO MATCH EXISTING SIDEWALK. CROSS SLOPE OF RAMP SHALL BE 1.5%, $\pm 0.5\%$.
7. TURNING SPACES SHALL BE 1.5%, $\pm 0.5\%$ SLOPE IN ANY DIRECTION. TURNING SPACES SHALL HAVE A MINIMUM 4'x4' TURNING AREA. TURNING SPACES, WITH A SIDEWALK CURB, SHALL HAVE A 5' TURNING AREA PERPENDICULAR TO THE SIDEWALK CURB.
8. FOR RETROFIT WORK, SLOPES TO BE DETERMINED IN FIELD BY CONTRACTOR AND APPROVED BY CITY INSPECTOR
9. RAMP EXTENSION AREA SHALL NOT BE USED AS TRANSITION TO EXISTING SIDEWALK. ANY TRANSITIONS REQUIRED TO MATCH RAMPS TO EXISTING SIDEWALK SHALL REQUIRE REMOVAL AND REPLACEMENT OF ADDITIONAL SIDEWALK BEYOND THE RAMP AREA. SIDEWALK TRANSITION LENGTH SHALL BE EQUAL TO OR GREATER THAN THE WIDTH OF THE EXISTING SIDEWALK. RAMP EXTENSIONS SHALL BE A CONTINUOUS SLOPE.
10. ALL SIDEWALK AND RAMP CONSTRUCTION SHALL MEET CURRENT PUBLIC RIGHT OF WAY ACCESSIBILITY GUIDELINES (PROWAG).



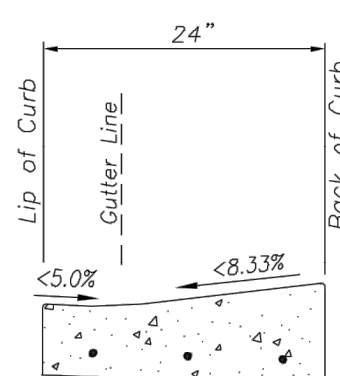
SIDEWALK CURB DETAIL
Not to Scale



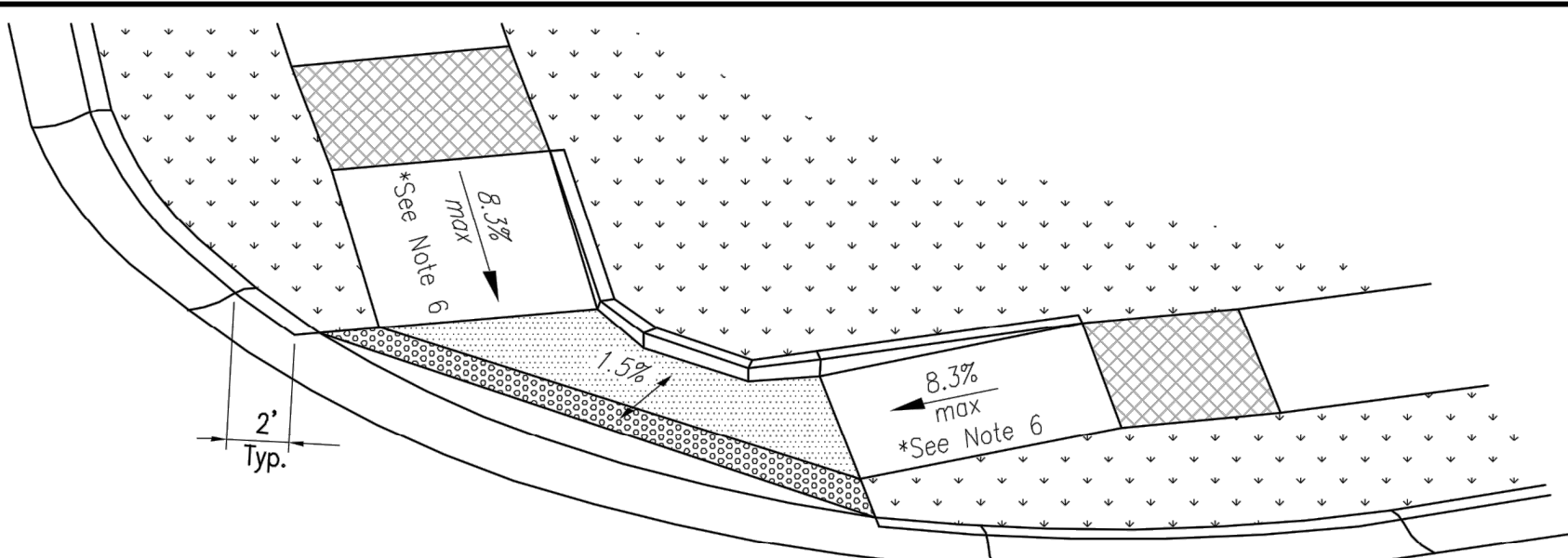
CONTRACTION JOINT



ISOLATION JOINT



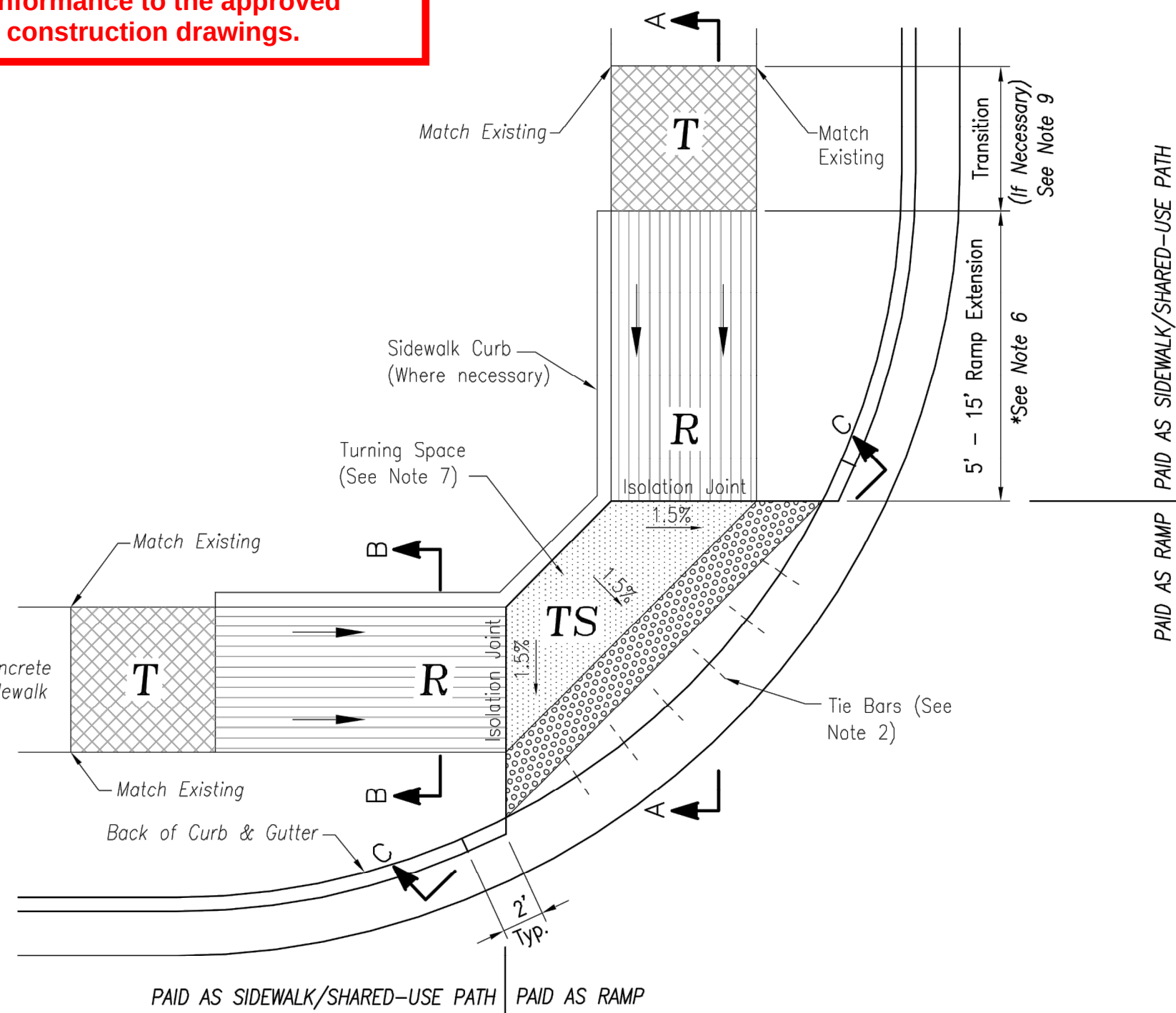
CURB & GUTTER DETAIL AT RAMP
Not to Scale



3-D VIEW TYPE B
SIDEWALK/SHARED-USE RAMP

Accepted
Record Drawings

These plans have been reviewed for accuracy and are accepted for basic conformance to the approved construction drawings.



TYPE B SIDEWALK/SHARED-USE RAMP
Not to Scale

LEE'S SUMMIT
MISSOURI

STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO
ADA RAMP RETROFIT DETAIL

Drawn By: MJF
Checked By: DL
Date: 04/17
Proj. #:

GEN-3A

STANDARD DETAILS

OREILLY DEVELOPMENT SENIOR LIVING FACILITY
OLDHAM PARKWAY & PRINCETON DRIVE IMPROVEMENTS

LEE'S SUMMIT, MISSOURI

REV. NO.	DATE	REVISIONS DESCRIPTION	BY
1	07/19/2019	ENGR. REVIEW COMMENTS	
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REVISIONS



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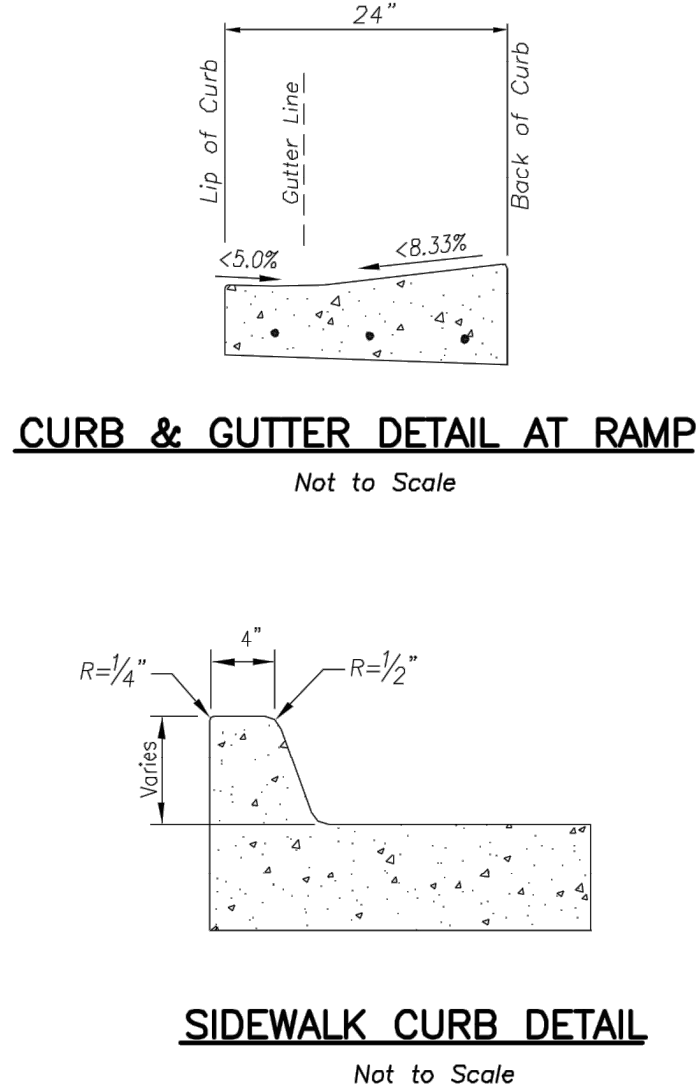
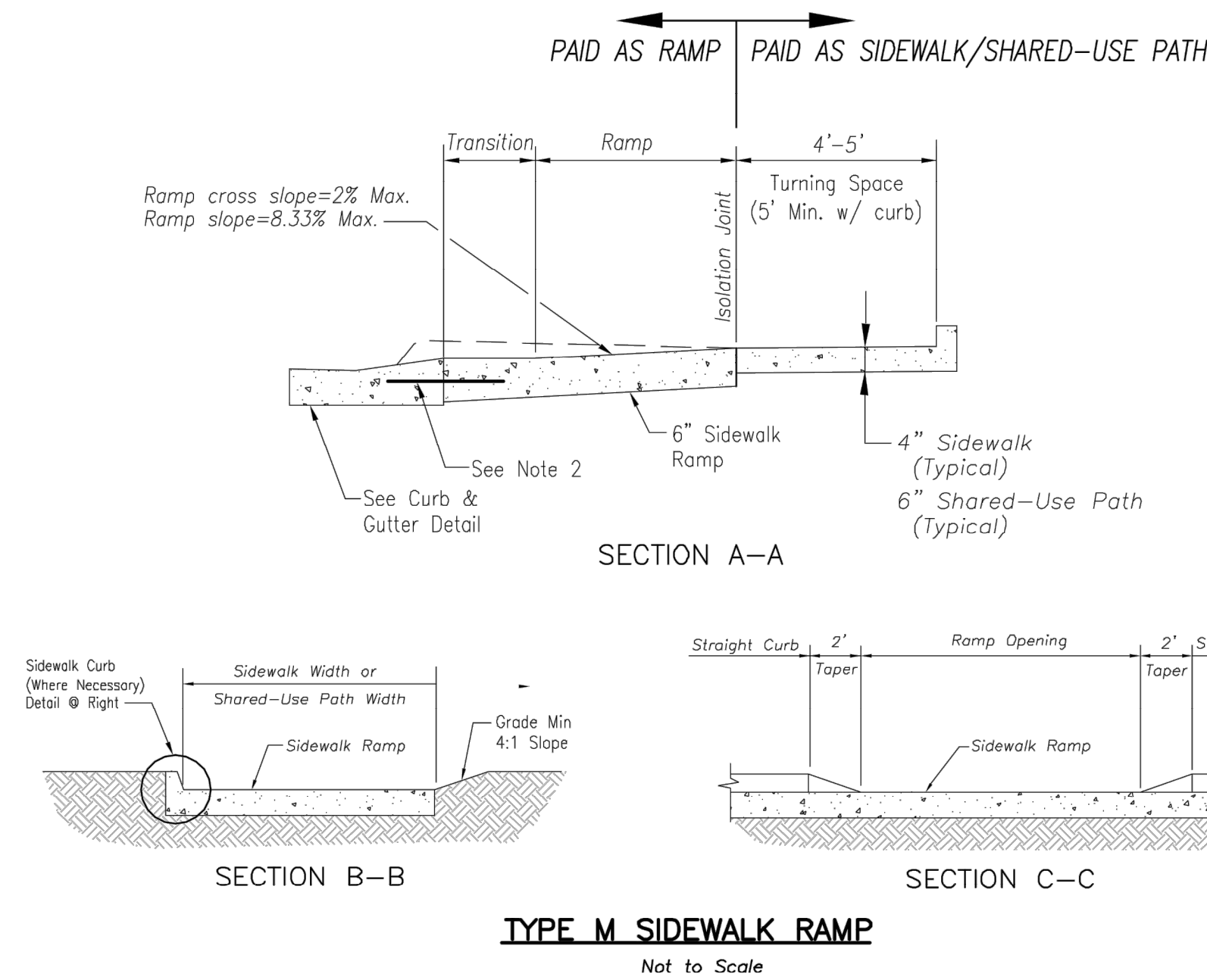
RECORD DRAWING

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SHEET
T18 OF 70

NOTE: THESE DETAILS ARE MEANT TO DESCRIBE TIE BAR LOCATIONS. AND ISOLATION JOINTS. IT IS NOT MEANT TO SUPERCEDE THE SITE-SPECIFIC DESIGN DETAILS FOR THE ADA-ACCESSIBLE RAMPS.



- Accepted
Record Drawings**
- These plans have been reviewed for accuracy and are accepted for basic conformance to the approved construction drawings.

GEN-3B

PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

ADA RAMP RETROFIT DETAIL

STANDARD DETAILS

OREILLY DEVELOPMENT SENIOR LIVING FACILITY
OLDHAM PARKWAY & PRINCETON DRIVE IMPROVEMENTS

LEE'S SUMMIT, MISSOURI

2019

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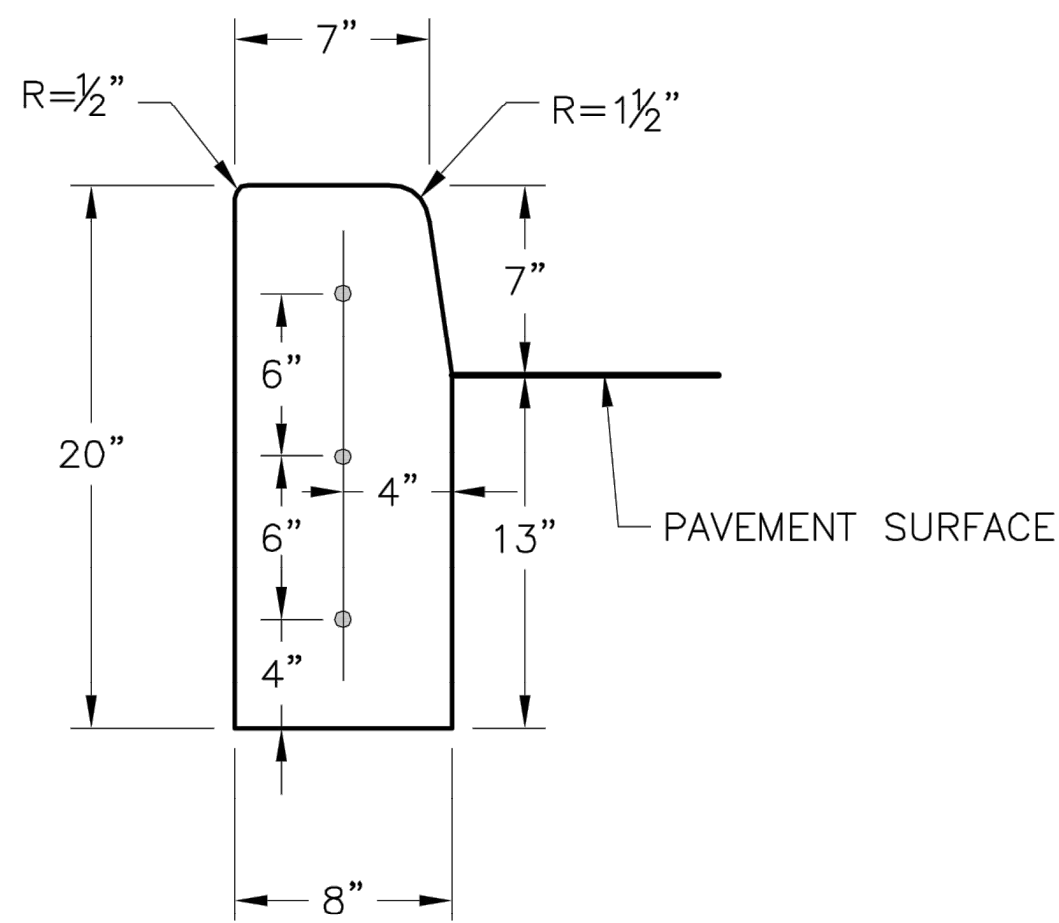
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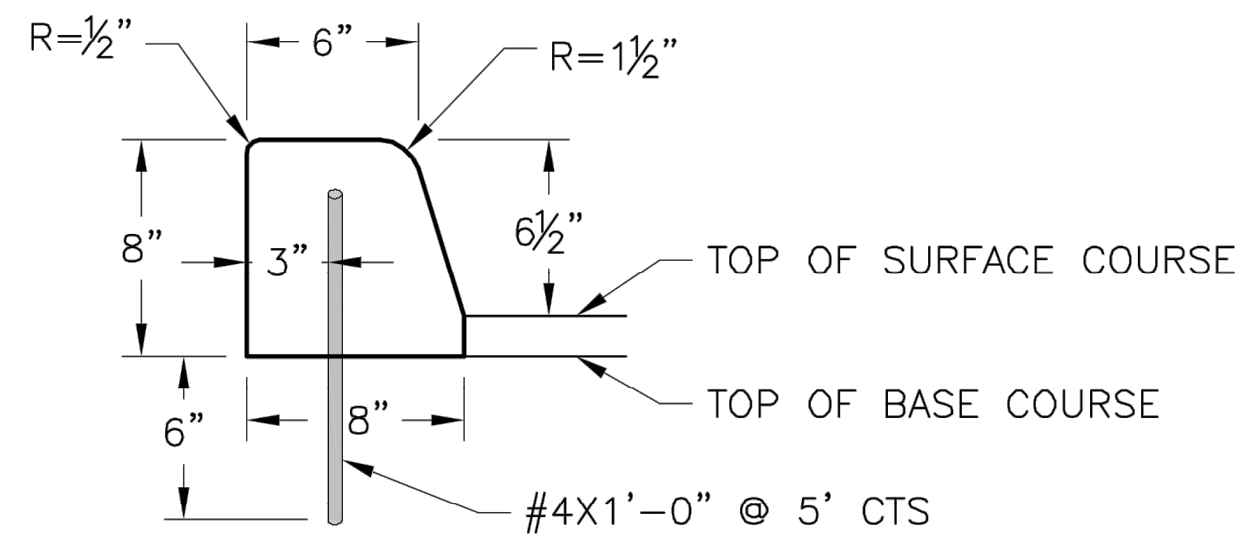
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C.O.A. NO.: 001592
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APPROVED BY: RBF
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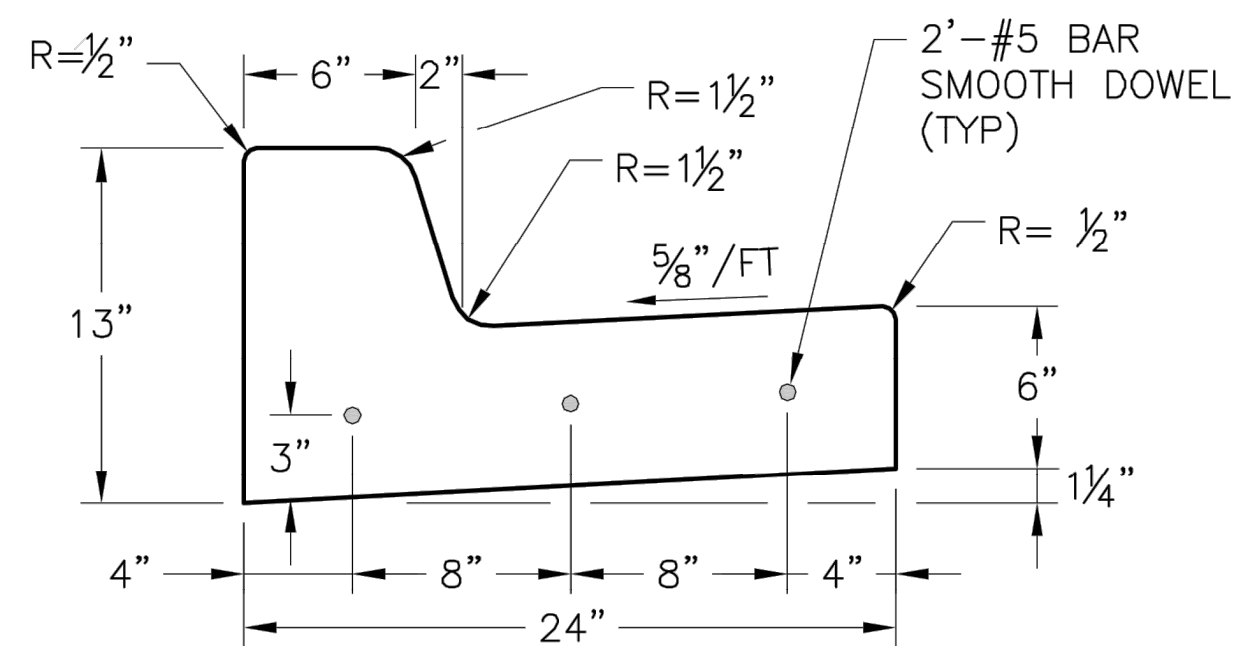
SHEET
T19 OF 70



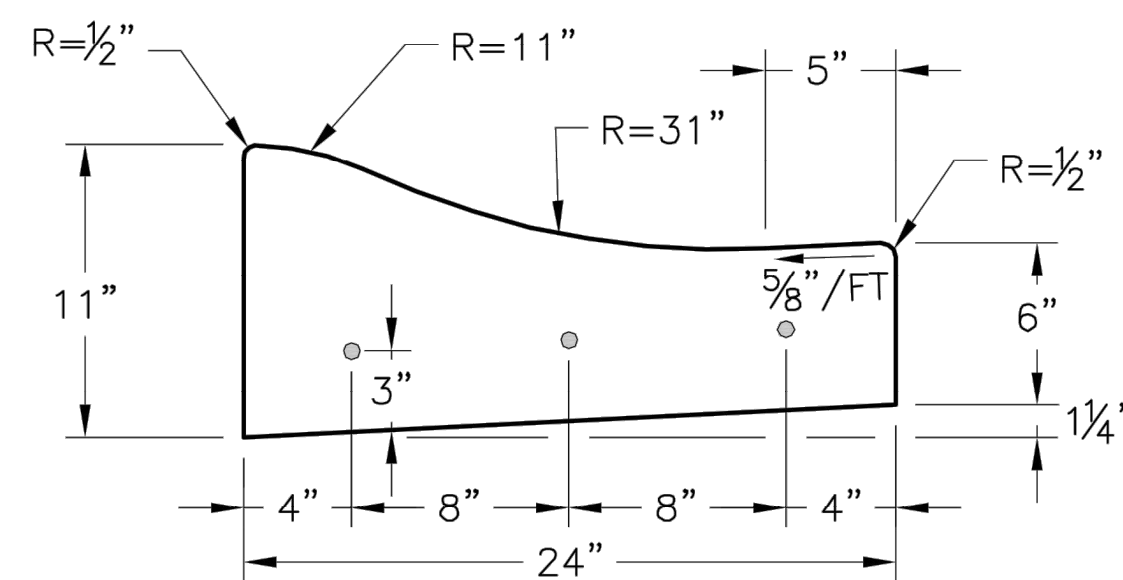
STRAIGHT CURB
(TYPE C-1)



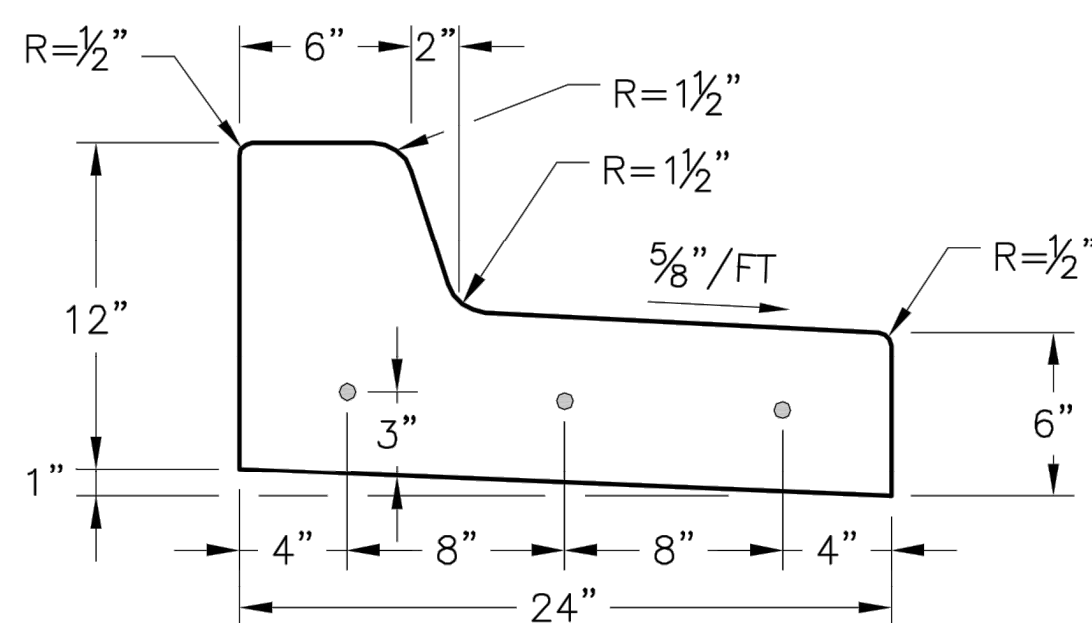
DOWELLED CURB
(TYPE DC)



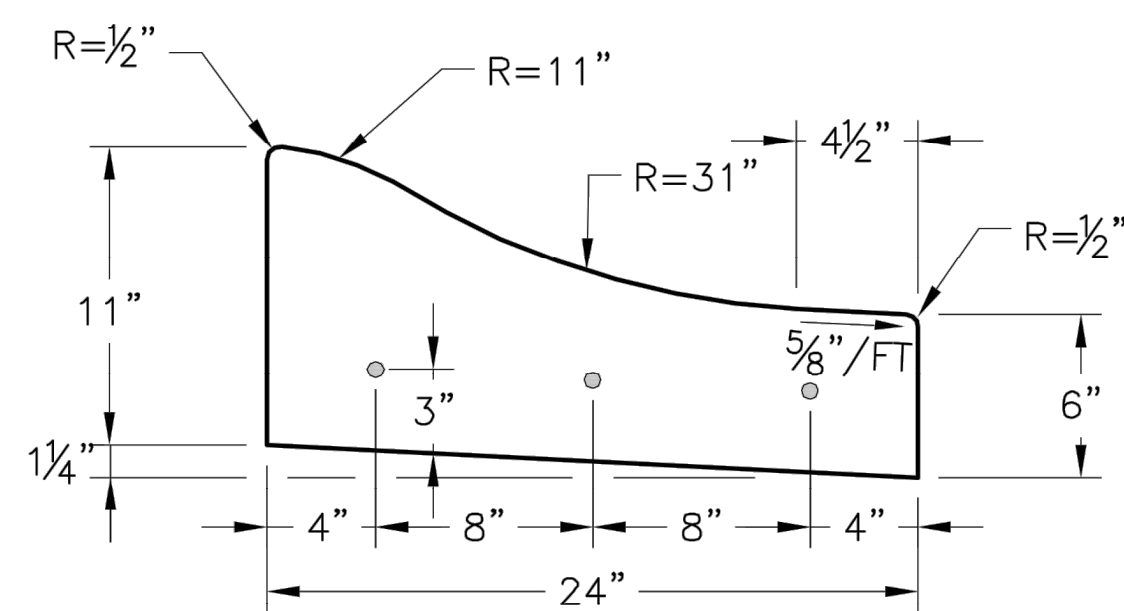
STRAIGHT BACK CURB &
GUTTER
(TYPE CG-1)



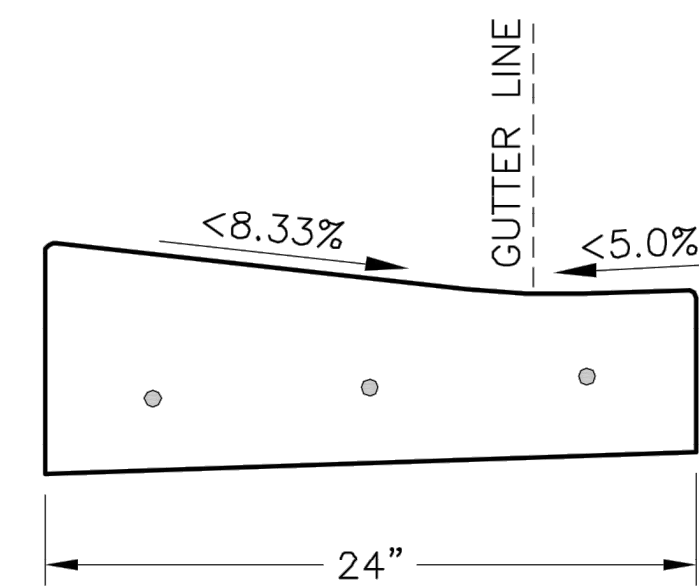
ROLL BACK CURB &
GUTTER
(TYPE CG-2)



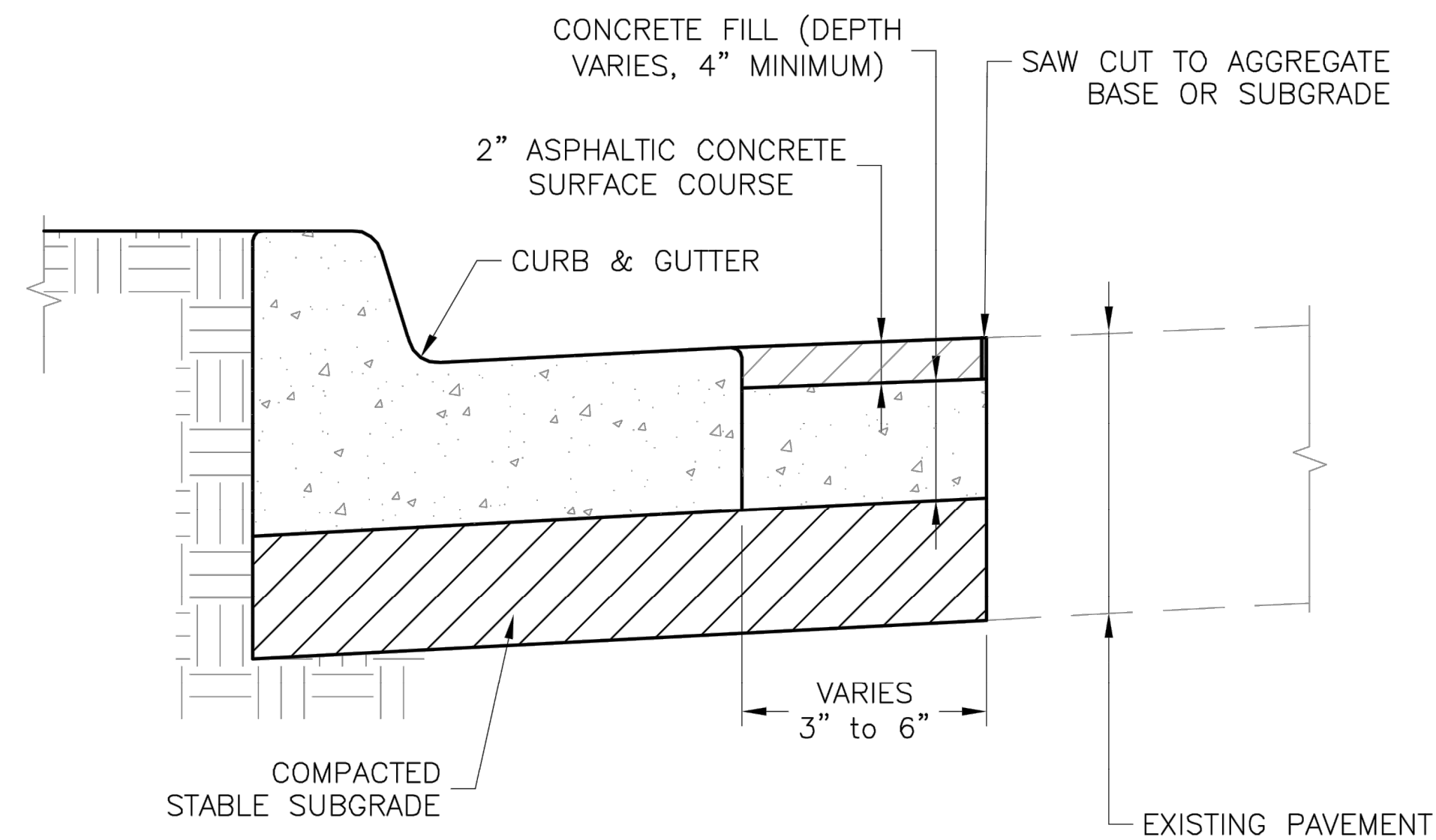
STRAIGHT BACK DRY CURB &
GUTTER
(TYPE CG-1 DRY)



ROLL BACK DRY CURB &
GUTTER
(TYPE CG-2 DRY)



CURB & GUTTER DETAIL AT RAMP
(ADA SLOPE REQUIREMENTS)



CURB REPLACEMENT DETAIL

**Accepted
Record Drawings**

These plans have been reviewed for accuracy and are accepted for basic conformance to the approved construction drawings.

GENERAL NOTES

1. ¾" ISOLATION JOINTS WITH 3 (2'-#5 BAR) SMOOTH DOWELS SHALL BE PLACED AT RADIUS POINTS AND AT 150' INTERVALS. THESE DOWEL BARS SHALL BE GREASED AND WRAPPED ON ONE END WITH EXPANSION TUBES.
2. 3" DEEP CONTRACTION JOINTS SHALL BE INSTALLED AT APPROXIMATELY 10' INTERVALS. THESE JOINTS SHALL PASS ACROSS THE ENTIRE CURB SECTION.
3. CONCRETE FILL SHALL HAVE UNIFORM AND SMOOTH FINISH
4. KCMMB 4K CONCRETE SHALL BE USED FOR ALL CURB.
5. ASPHALTIC CONCRETE SURFACE COURSE SHALL CONFORM TO STANDARD SPECIFICATIONS SECTION 2205.2.
6. CURBS FOR NEW STREETS SHALL BE BUILT ON ASPHALT OR AGGREGATE BASE AS SHOWN IN TYPICAL SECTION DETAIL.
7. WHITE CURING COMPOUND MUST BE APPLIED UNIFORMLY TO THE CONCRETE SURFACE IMMEDIATELY AFTER FINAL FINISHING.

LS LEE'S SUMMIT
MISSOURI

Project: STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO
Sheet Name: CLIPP & CUTTER DETAILS

Drawn By: MJF
Checked By: DL
Date: 04/17
Proj. #:

GEN-4

PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

STANDARD DETAILS

STANDARD DETAILS

1

STANDARD DETAILS

REV. NO.	DATE	REVISIONS DESCRIPTION	BY
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"NOT AS BUILT"

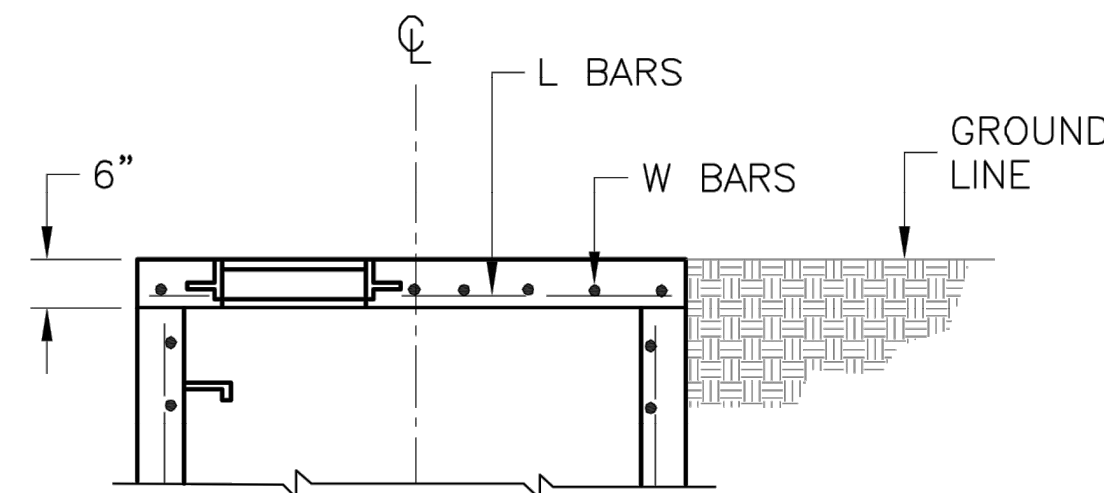
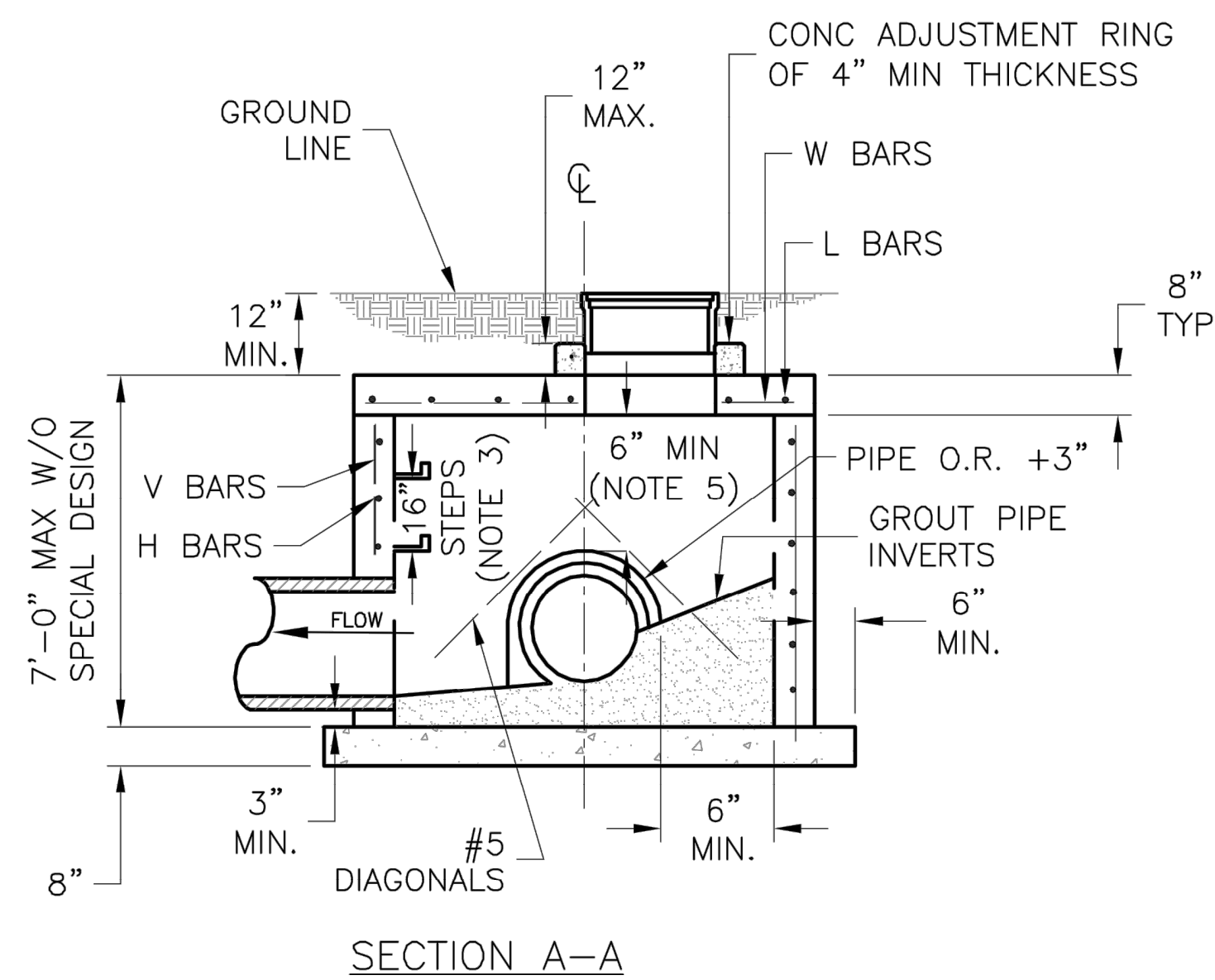
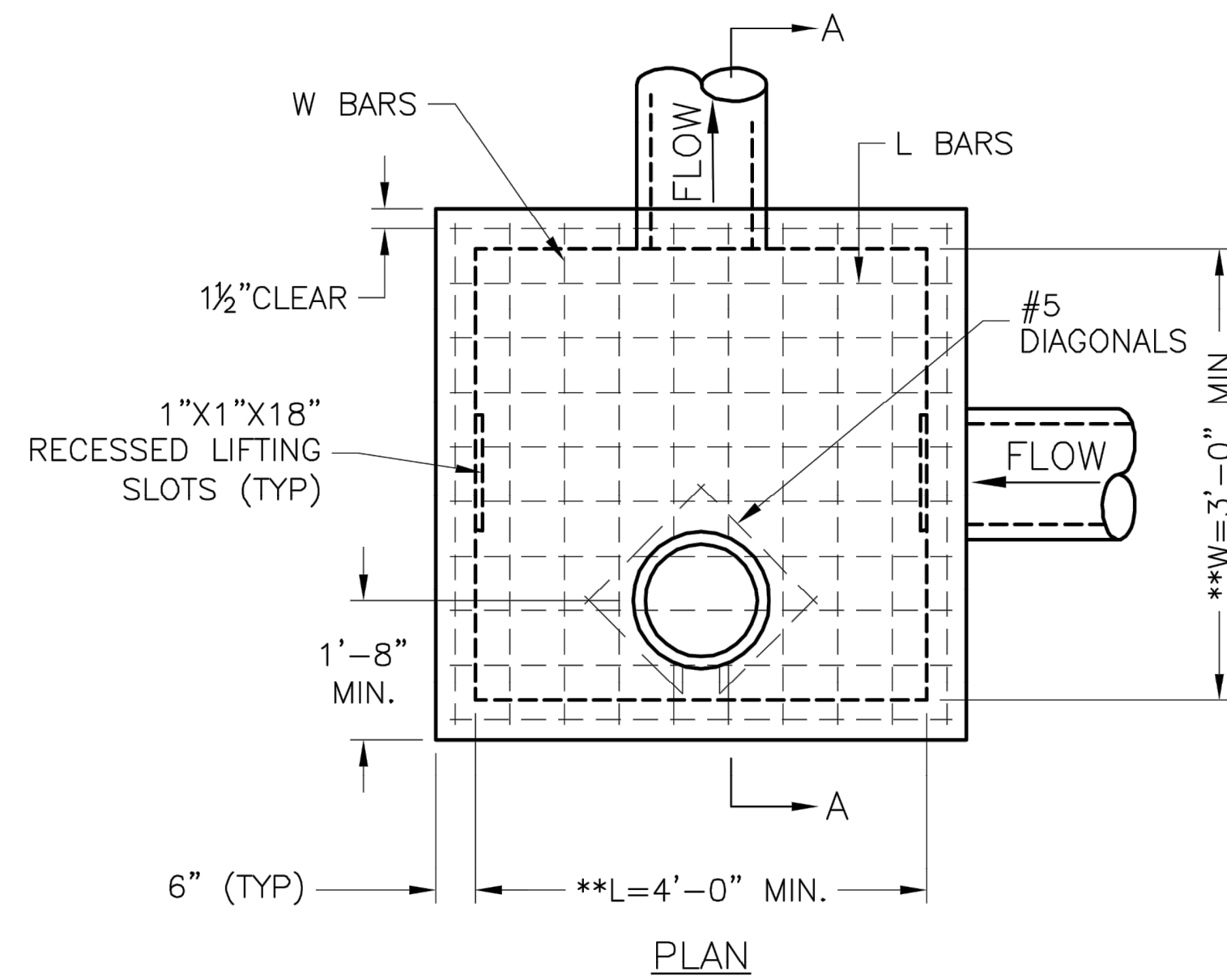
RECORD DRAWING

olsson

Olsson Engineering - MO State Certificate of Authority #001592
737301 West 133rd Street, Suite 200 TEL 913.381.1170
Overland Park KS 66213-4750 FAX 913.381.1174
www.olsson.com

C.O.A. NO.: 001592
DRAWN BY: AS
CHECKED BY: JKL
APPROVED BY: RBF
QA/QC BY: JKL/RBF
PROJECT NO.: 018-1450
DWG NO.: T_STD1_81450
DATE: 07.19.19

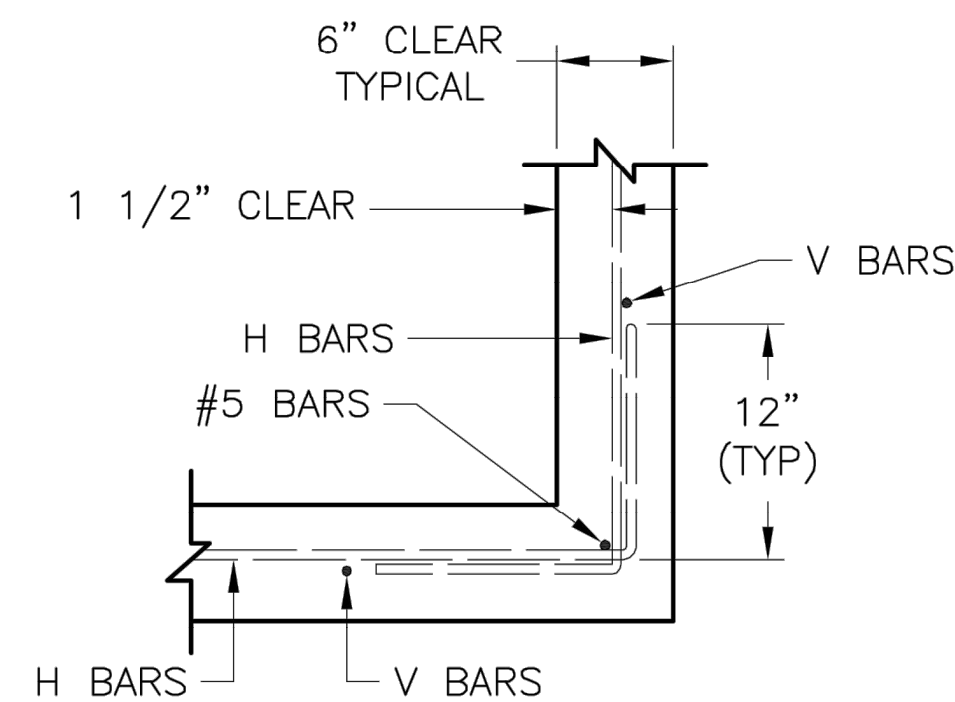
SHEET
T20 OF 70



SLAB TOP ALTERNATE FOR
JUNCTION BOX (SHALLOW)

** INCREASE IN MULTIPLES OF 6"
(7'-0") MAX WITHOUT SPECIAL DESIGN.
(SEE PROJECT PLANS FOR DETAILS)

REINFORCING		
BARS	BAR SIZE	SPACING (IN.)
H	4	12
V	4	12
L	5	6
W	5	6

WALL CORNER DETAIL

**Accepted
Record Drawings**

These plans have been reviewed for accuracy and are accepted for basic conformance to the approved construction drawings.

LS
LEE'S SUMMIT
MISSOURI

PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

STANDARD DETAILS

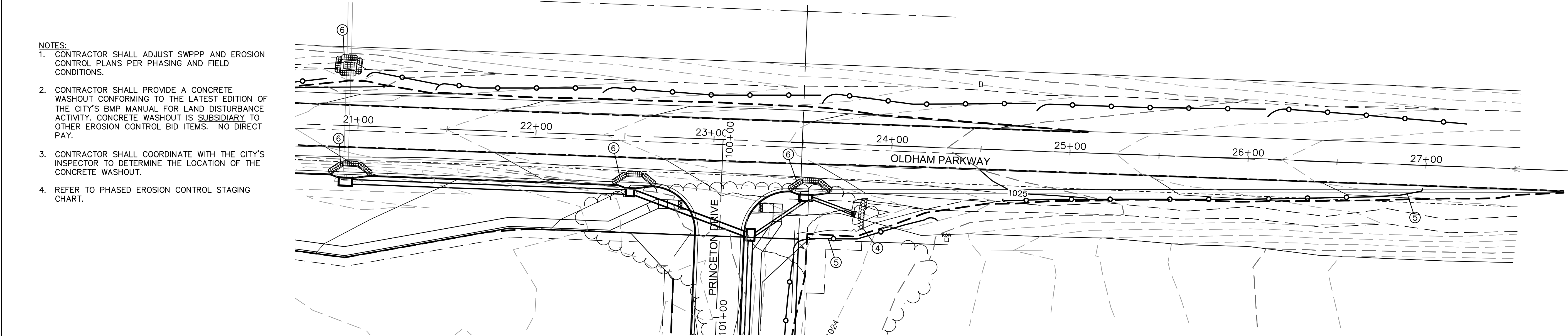
CITY OF LEE'S SUMMIT, MO
SUMMIT, JACKSON COUNTY, MO

Sheet Name:

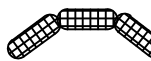
STM-3

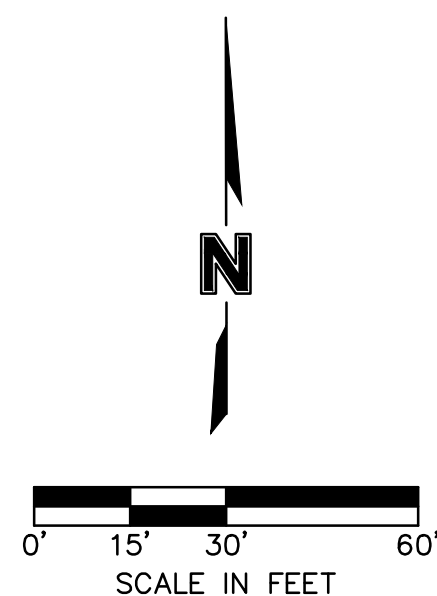
Drawn By: MJF
Checked By: DL
Date: 04/17
Proj. #:

STANDARD DETAILS					
OREILLY DEVELOPMENT SENIOR LIVING FACILITY OLDHAM PARKWAY & PRINCETON DRIVE IMPROVEMENTS					
LEE'S SUMMIT, MISSOURI					
2019					
C.O.A. NO.: _____ 001592					
DRAWN BY: _____ AS					
CHECKED BY: _____ JKL					
APPROVED BY: _____ RBF					
QA/QC BY: _____ JKL/RBF					
PROJECT NO.: _____ 018-1450					
DWG NO.: _____ T STD1 81450					
DATE: _____ 07.19.19					
SHEET T22 OF 70					



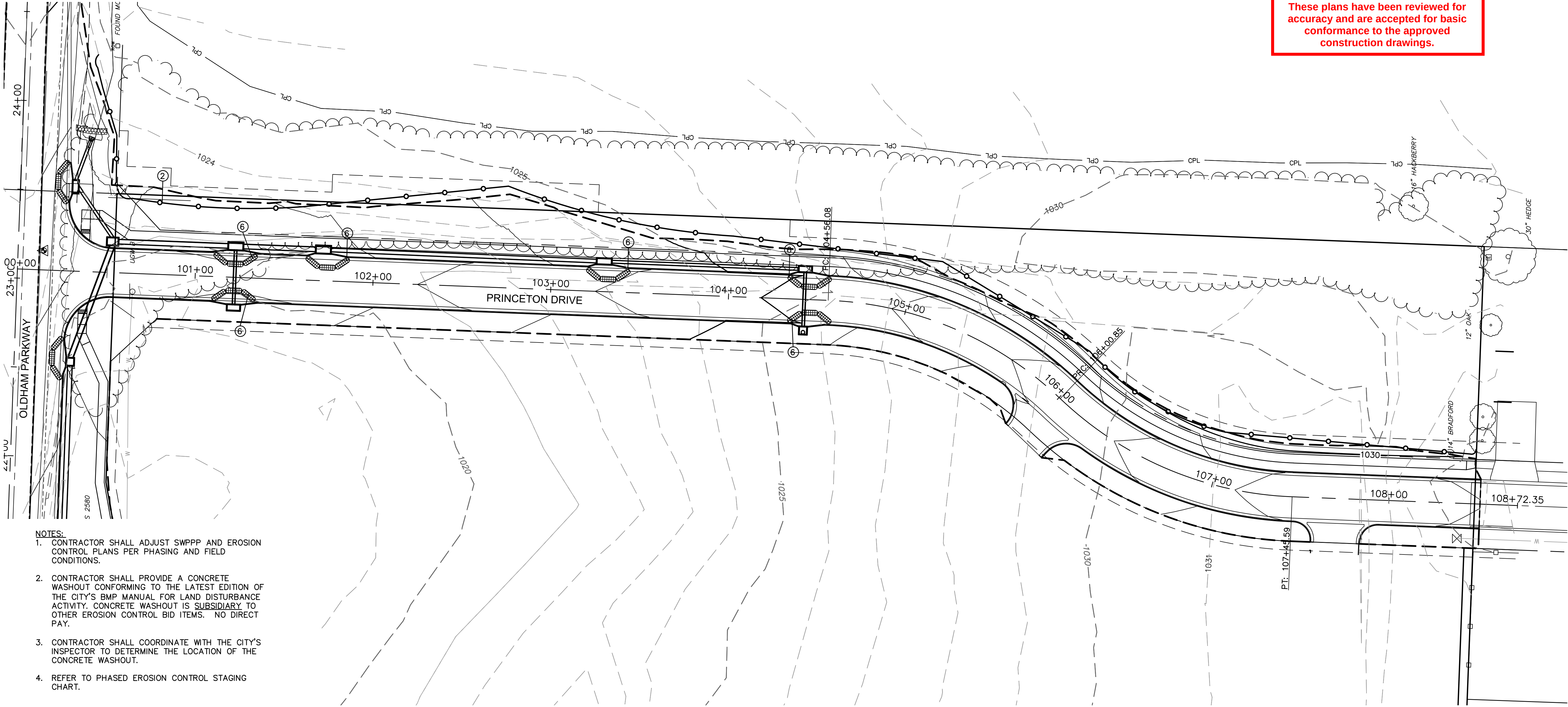
LEGEND

	SILT FENCE
	CONSTRUCTION ENTRANCE
	CONCRETE WASHOUT
	TURF REINFORCEMENT MAT
	OUTLET STABILIZATION
	INLET PROTECTION
	TYPE II DITCH CHECKS



DWG: F:\2018\1001-1500\018-1450\40-Design\AutoCAD\Final_Plans\Sheets\ROBBER\EROSION CONTROL PLANS\I_ERC1_81450.dwg
DATE: Jul 25, 2019 9:27am
USER: asaavedra
XREFS: t_ptblk_81450 V_TOPO_81450

EROSION AND SEDIMENT CONTROL STAGING CHART				
PROJECT STAGE	EROSION CONTROL PLAN BMP REFERENCE NO.	BMP DESCRIPTION	REMOVE AFTER STAGE	NOTES:
A - PRIOR TO LAND DISTURBANCE	1	STAGING AREA	C	
	2	TEMPORARY CONSTRUCTION ENTRANCE	C	
	3	CONCRETE WASHOUT	C	
	4	TYPE II DITCH CHECK		INSTALL BEFORE STORM SEWER INSTALLATION
	5	SILT FENCE AND/OR STRAW WATTLES	D	
B - ROADWAY GRADING & STORM SEWER INSTALLATION	N/A	EROSION AND SEDIMENT CONTROL	N/A	PERFORM MAINTENANCE ON ALL EROSION CONTROL MEASURES FOR ALL PREVIOUS PHASES AS NECESSARY.
	6	CURB INLET/AREA INLET PROTECTION	C	PROTECT ALL OPEN BOXES WITH SILT FENCE PER CURB INLET DETAIL
C - PAVING				
D - STABILIZE SITE	7	SEED & SOD	N/A	



- NOTES:
- CONTRACTOR SHALL ADJUST SWPPP AND EROSION CONTROL PLANS PER PHASING AND FIELD CONDITIONS.
 - CONTRACTOR SHALL PROVIDE A CONCRETE WASHOUT CONFORMING TO THE LATEST EDITION OF THE CITY'S BMP MANUAL FOR LAND DISTURBANCE ACTIVITY. CONCRETE WASHOUT IS SUBSIDIARY TO OTHER EROSION CONTROL BID ITEMS. NO DIRECT PAY.
 - CONTRACTOR SHALL COORDINATE WITH THE CITY'S INSPECTOR TO DETERMINE THE LOCATION OF THE CONCRETE WASHOUT.
 - REFER TO PHASED EROSION CONTROL STAGING CHART.

LEGEND

SILT FENCE

CONSTRUCTION ENTRANCE

CONCRETE WASHOUT

TURF REINFORCEMENT MAT

OUTLET STABILIZATION

INLET PROTECTION

TEMPORARY ROCK DITCH CHECKS

N

0' 15' 30' 60'

SCALE IN FEET

erosion control plans

OREILLY DEVELOPMENT SENIOR LIVING FACILITY
OLDHAM PARKWAY & PRINCETON DRIVE IMPROVEMENTS

LEE'S SUMMIT, MISSOURI

2019

REVISIONS

BY

REVISIONS DESCRIPTION

DATE

REV. NO.

olsson

Olsson Engineering - MO State Certificate of Authority #001592
7301 West 133rd Street, Suite 200
Overland Park, KS 66213-4750
TEL 913.381.1170
FAX 913.381.1174
www.olson.com

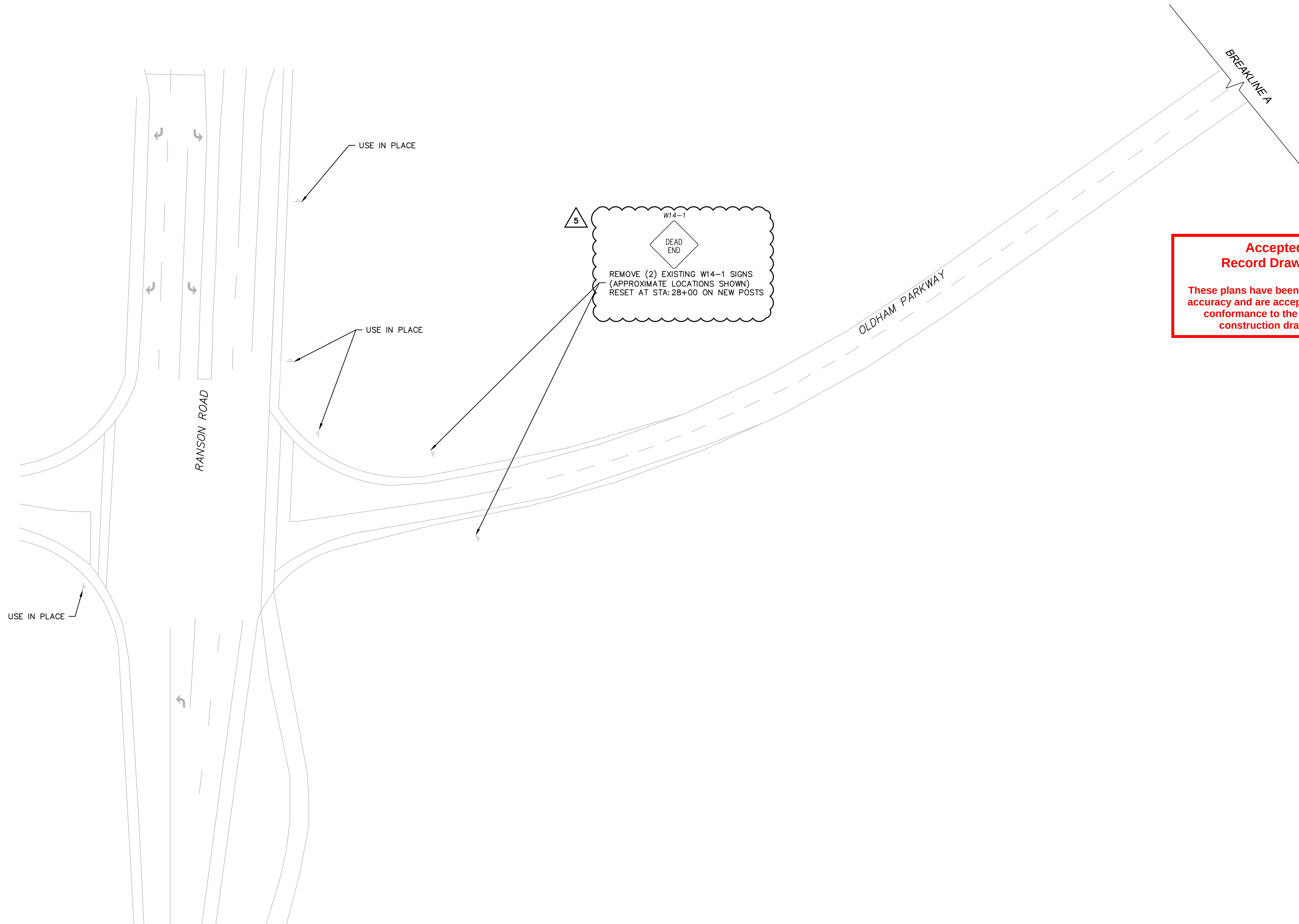
RECORD DRAWING

"NOT AS BUILT"

C.O.A. NO.: 001592
DRAWN BY: AS
CHECKED BY: JKL
APPROVED BY: RBE
QA/QC BY: JKL/RBE
PROJECT NO.: 018-1450
DWG NO.: T_ERC1_81450
DATE: 07.19.19

SHEET
T24 OF 70

DWG: C:\Temp\AcPublish_13604\T_SAS01_81450.dwg
DATE: Aug 14, 2019 2:44pm
USER: jclarence
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C.O.A. NO.: 001592
DRAWN BY: LZ
CHECKED BY: JAC
APPROVED BY: JSS
QA/QC BY: JSS
PROJECT NO.: 018-1450
DWG NO.: T.SAS01.01450
DATE: 07.19.19

SHEET
T25 OF 70

PAVEMENT MARKING AND SIGNING

OREILLY DEVELOPMENT SENIOR LIVING FACILITY
WOLDHAM PARKWAY & PRINCETON DRIVE IMPROVEMENTS

LEE'S SUMMIT, MISSOURI	2019
------------------------	------

[illegible]

RECORD DRAWING

"NOT AS BUILT"

Olsson

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Overland Park, KS 66213-4750 FAX 913.381.1174 www.olsson.com

SAS01_81450.dwg USER: jclemence
XREFS: t_pbase_81450 T_PTBLK_81



These plans have been reviewed for accuracy and are accepted for basic conformance to the approved construction drawings.

OBLITERATE EXISTING CENTERLINE STRIPING
STA:13+35 TO STA:26+84

Olsson

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FAX 913.381.1174
www.olssoneng.com

RECORD DRAWING



"NOT AS BUILT"

[illegible]

REVISIONS

PAVEMENT MARKING AND SIGNING

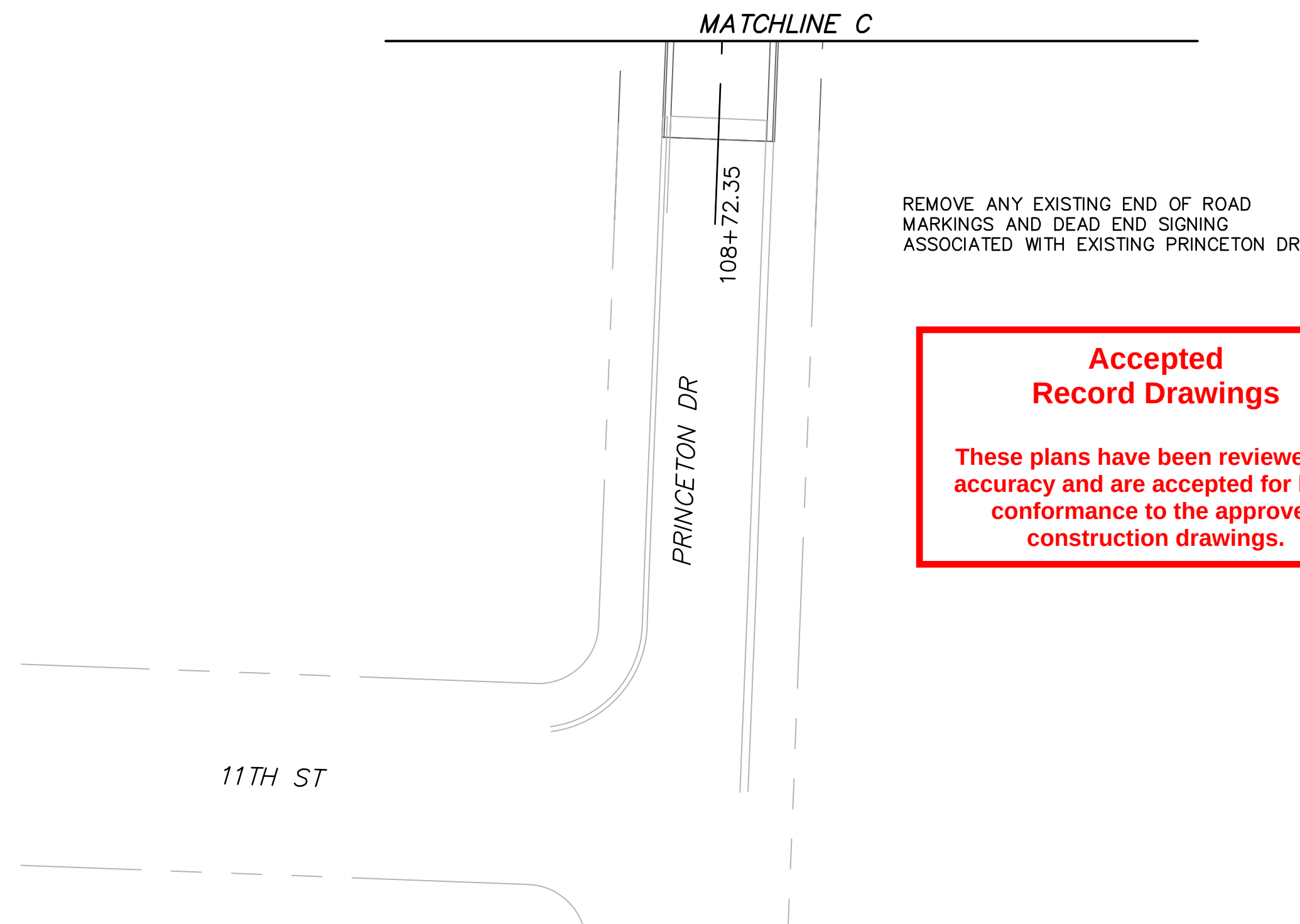
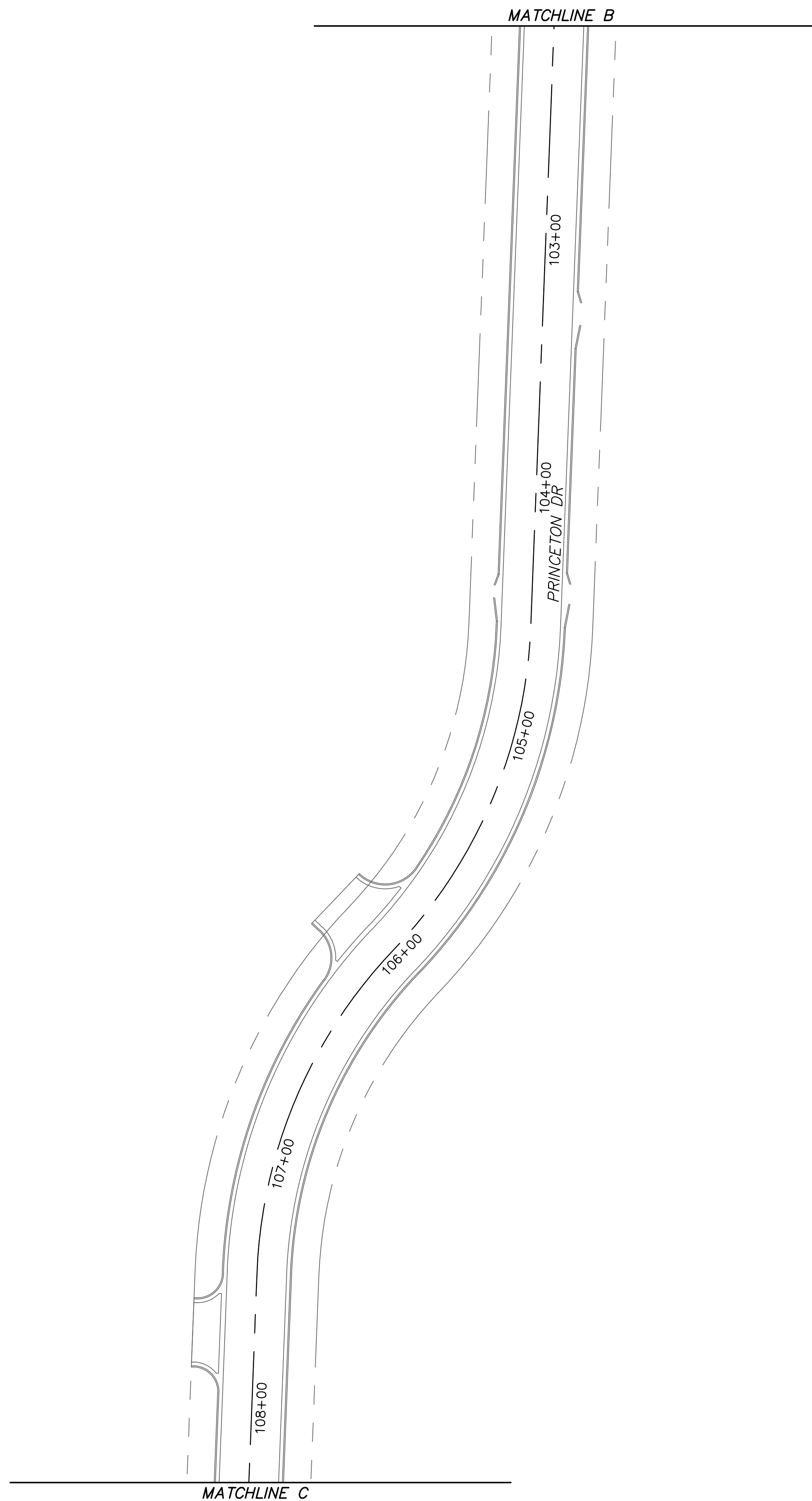
OREILLY DEVELOPMENT SENIOR LIVING FACILITY
WOLDHAM PARKWAY & PRINCETON DRIVE IMPROVEMENTS

2019

LEE'S SUMMIT, MISSOURI

C.O.A. NO.: 001592
DRAWN BY: LZ
CHECKED BY: JAC
APPROVED BY: JSS
QA/QC BY: JSS
PROJECT NO.: 018-1450
DWG NO.: T_SAS01_01450
DATE: 07.19.19

SHEET
T26 OF 70



REMOVE ANY EXISTING END OF ROAD
MARKINGS AND DEAD END SIGNING
ASSOCIATED WITH EXISTING PRINCETON DR

**Accepted
Record Drawings**

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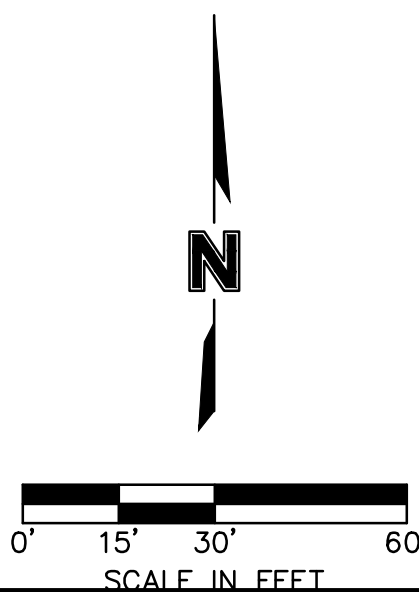
PAVEMENT MARKING SUMMARY						
STATION TO STATION		LOCATION	4" SOLID WHITE LANE LINES (LF) *	4" SOLID YELLOW LANE LINE (LF) *	12" YELLOW CROSSHATCH LINES (LF) *	WHITE TURN ARROWS (EA) **
						L.T.
13+35	19+55	OLDHAM		2480		
13+35	19+55	OLDHAM			178	
12+31	15+77	OLDHAM	346			
20+21	21+71	OLDHAM	150			
20+21	22+78	OLDHAM		710		
20+51		OLDHAM				1
21+09		OLDHAM				1
21+67		OLDHAM				1
21+80	22+78	OLDHAM			25	
23+37	26+84	OLDHAM		1388		
23+37	26+84	OLDHAM			65	
23+66	26+84	OLDHAM	318			
12+80	26+84	OLDHAM	1404			
TOTALS			2218	4578	268	3

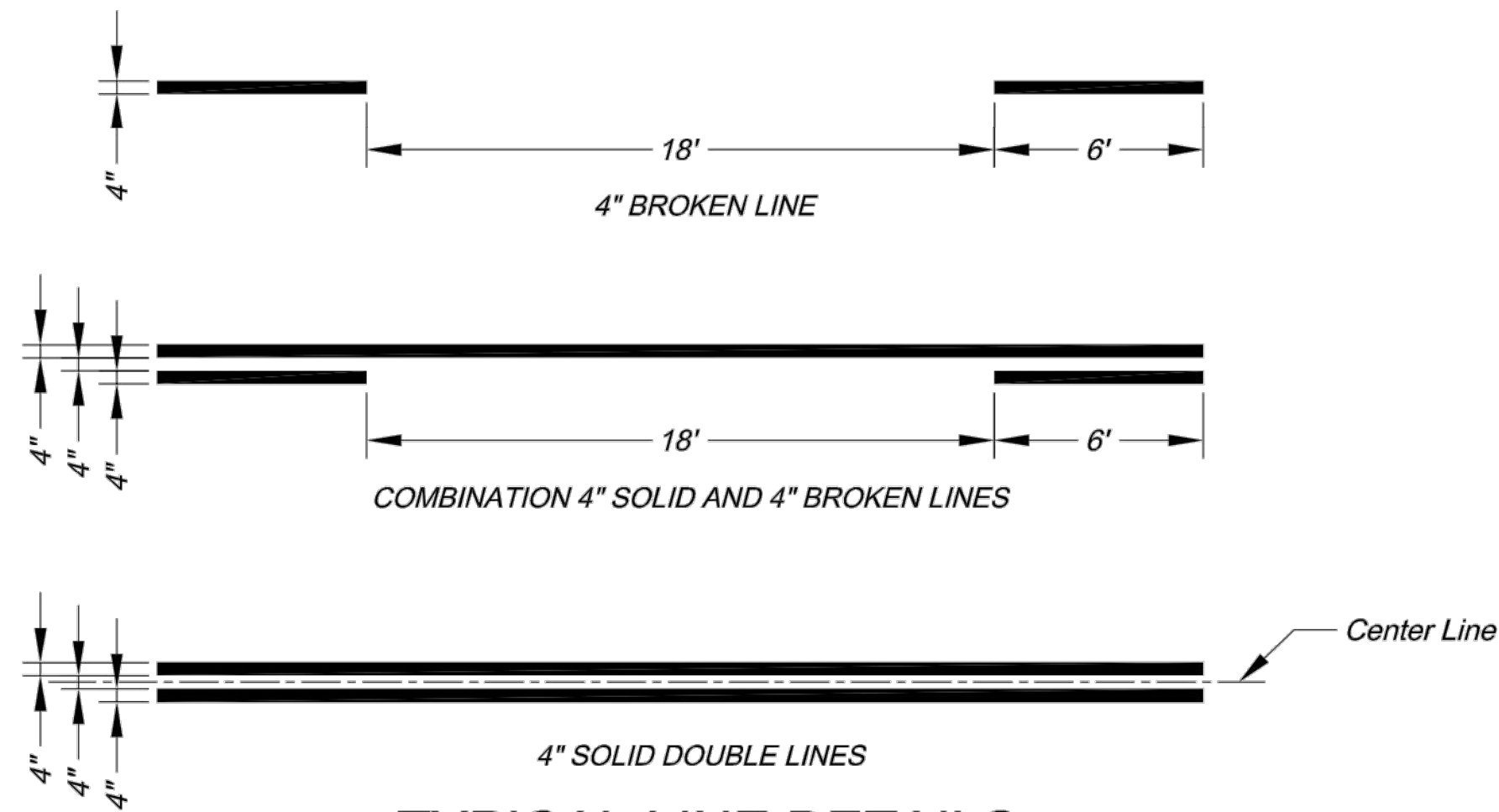
*ALL PAVEMENT MARKINGS ON ASPHALT SHALL BE THERMOPLASTIC

****PAVEMENT MARKINGS SHALL BE PRE-FORMED THERMOPLASTIC**

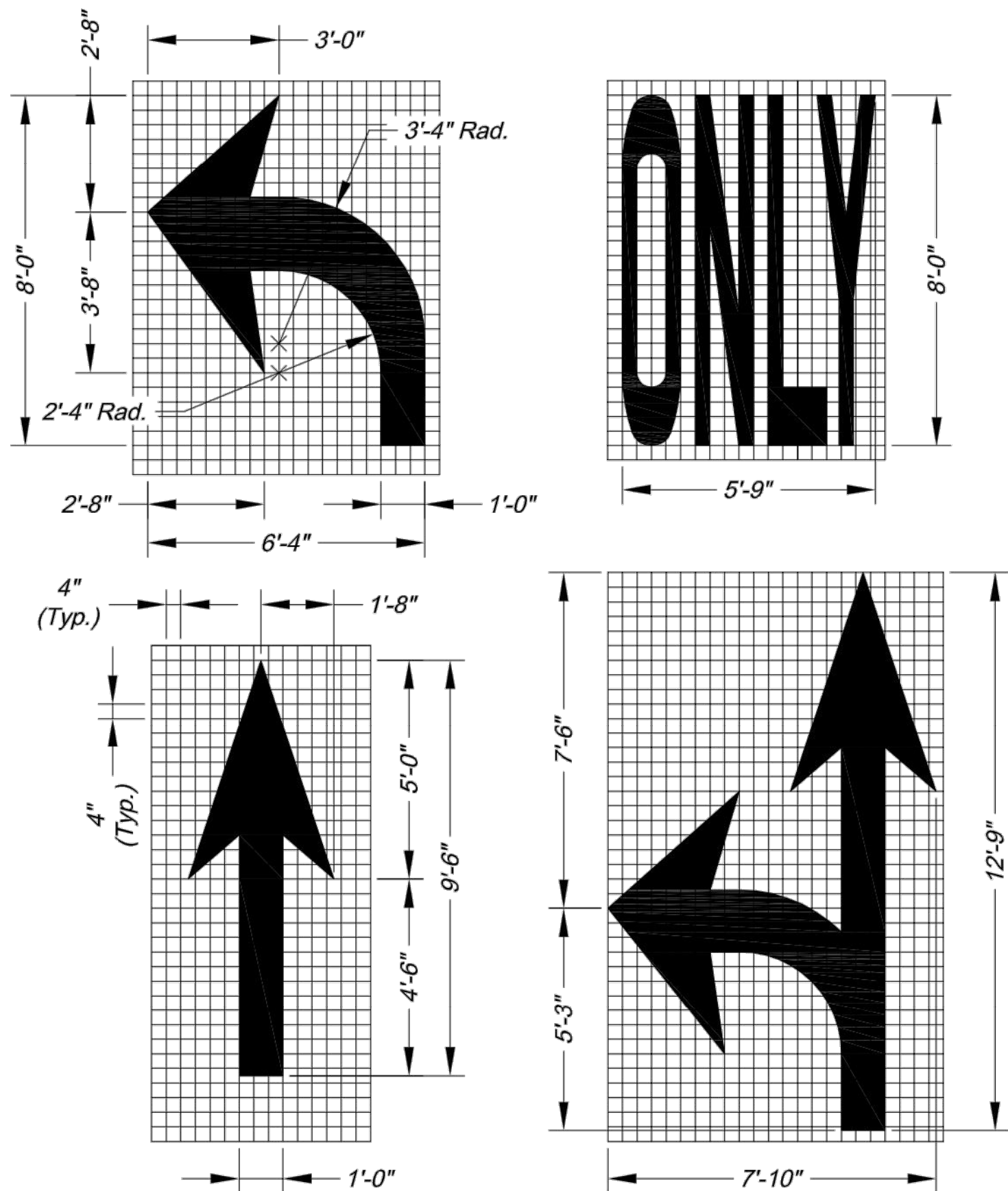
PERMANENT SIGNING SUMMARY ***						
STATION	STREET REFERENCE	OFFSET FROM C	MUTCD DESIGNATION	SIGN SIZE	AREA (S.F.) MEP SIGNS	POST TYPE
APPROX.	OLDHAM	-	W14-1 (2)	EXISTING	EXISTING	REMOVE (2)
20+24.18	OLDHAM	21.00'L	R2-1	24"x30"	5	SQUARE
20+25.09	OLDHAM	34.40'R	R1-1	30"x30"	5.18	SQUARE
28+00.00	OLDHAM	15.40'R	W14-1	EXISTING	EXISTING	SQUARE
28+00.00	OLDHAM	15.40'L	W14-1	EXISTING	EXISTING	SQUARE
100+41.59	PRINCETON	20.19'L	R1-1	30"x30"	5.18	SQUARE
100+41.59	PRINCETON	20.19'L	D3-1 (SP-1) (2)	9"x48"	3 (2)	SHARED
100+41.59	PRINCETON	20.19'L	D3-1 (SP-2) (2)	9"x48"	3 (2)	SHARED
102+1.27	PRINCETON	19.45'R	R2-1	24"x30"	5	SQUARE
TOTALS			32.36 SF		6 EA	

***ALL SIGNS REMOVED SHALL BE SUBSIDIARY TO NEW SIGNING

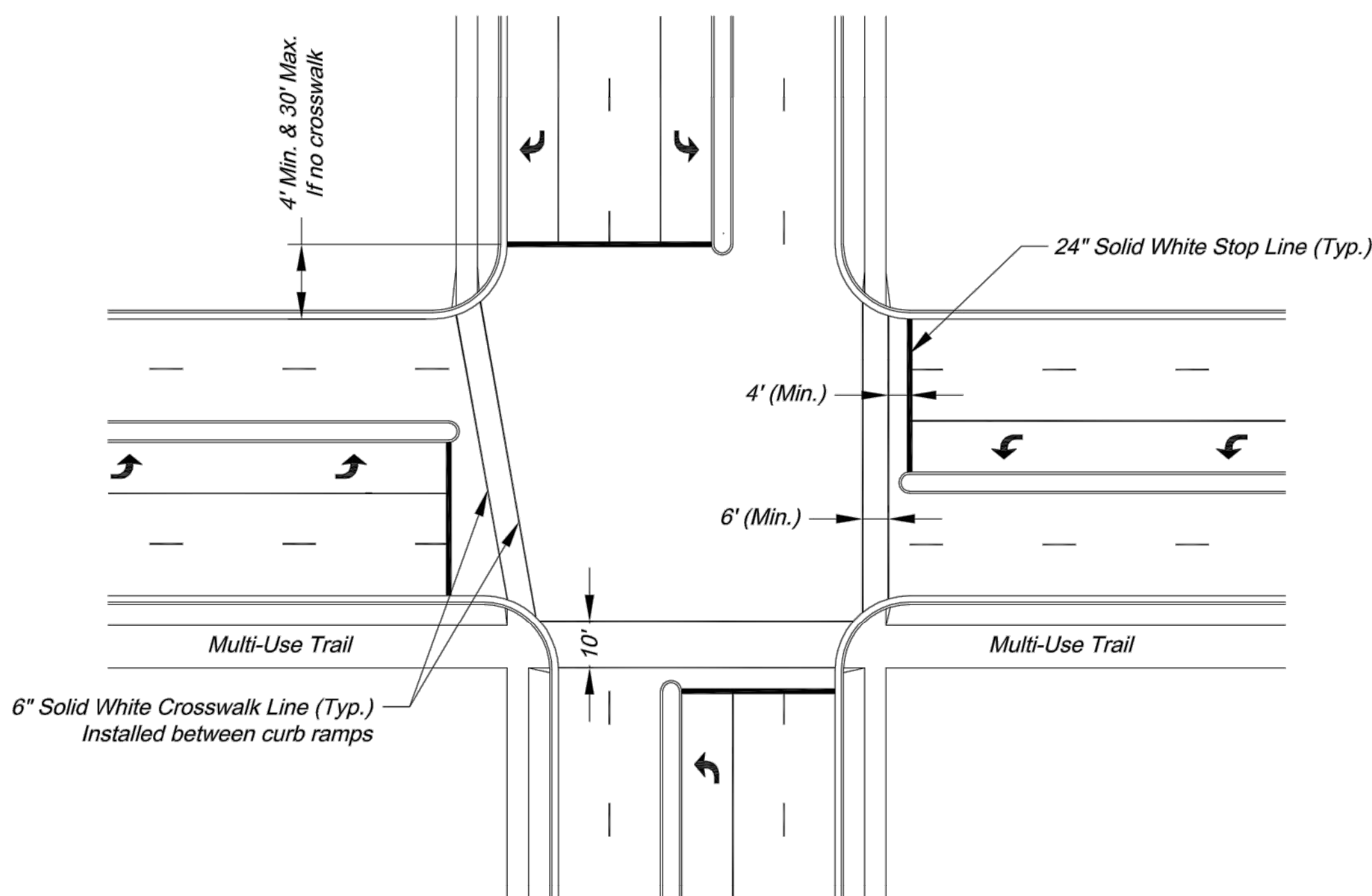
[illegible]



NOTES:
1. All edge line, center line, and lane line pavement markings shall be 4" wide unless otherwise noted.
2. Edge lines shall be continuous solid white or yellow lines. Right side edge lines shall be solid white. Median or left side edge lines on divided roadways are to be solid yellow. Edge lines and center lines shall be continuous across driveways.

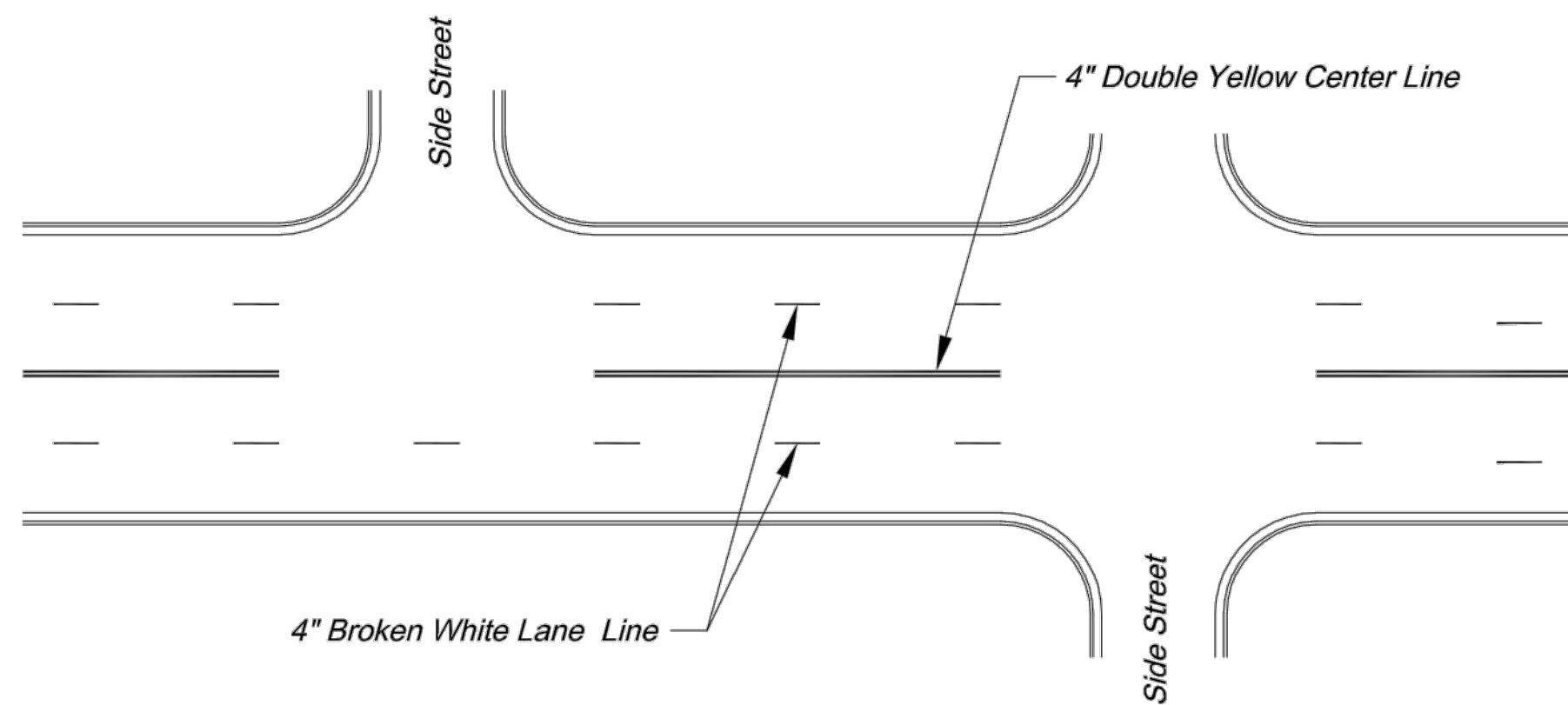


NOTES:
1. All arrow and symbol markings shall be white, and shall be centered in their respective traffic lanes.
2. Right-turn and combination right-turn/straight arrows are reverse of arrows shown.



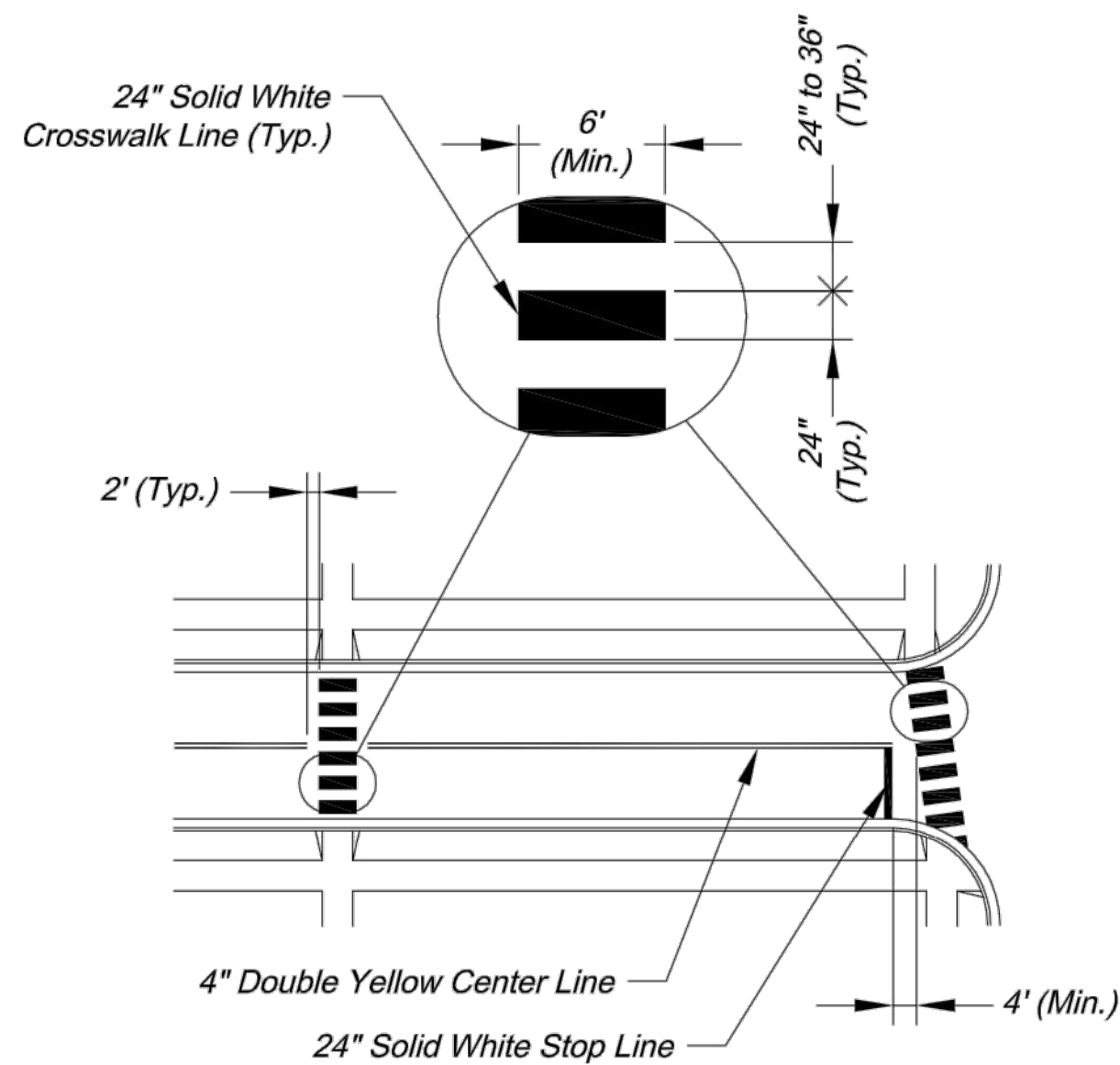
TYPICAL INTERSECTION MARKINGS

NOTES:
1. Transverse crosswalk lines shall be installed such that the distance between lines is at least 6 or 10 feet.
2. Stop lines are required at signalized intersections, on multi-lane stop controlled approaches, or in front of crosswalks at controlled intersections.



TYPICAL MARKINGS FOR FOUR-LANE UNDIVIDED ROADWAY

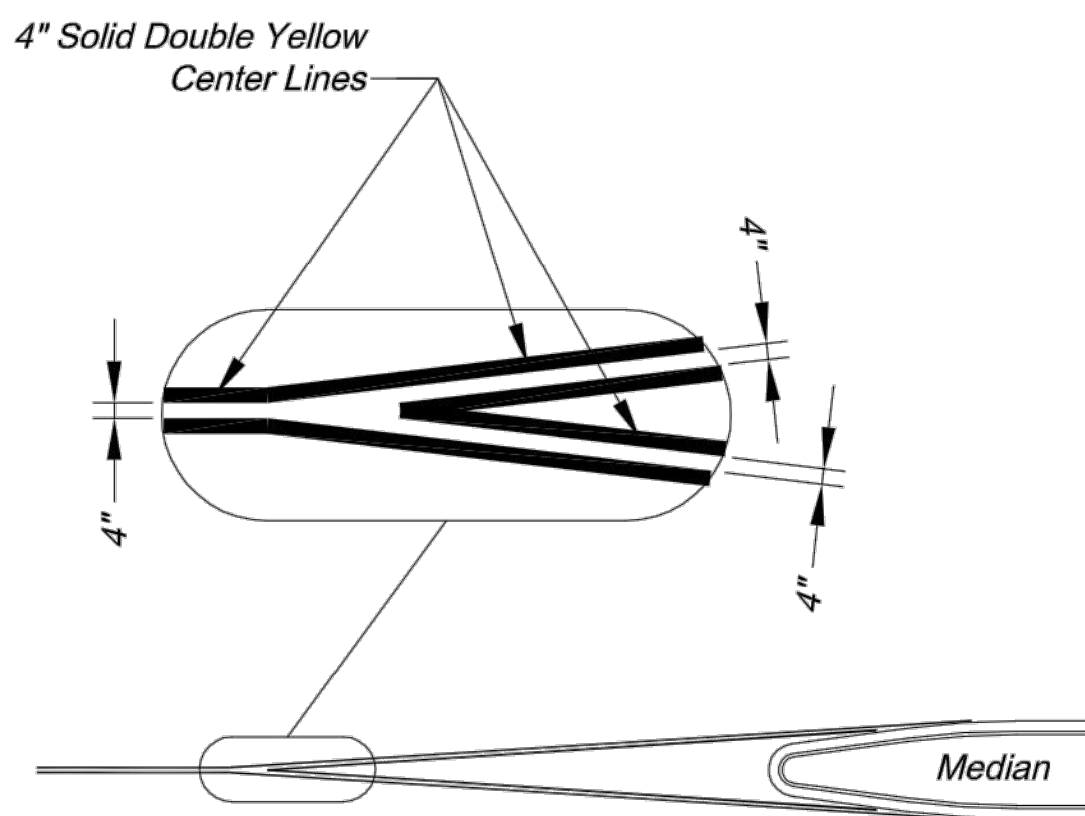
PAVEMENT MARKING GENERAL NOTES:
1. All pavement markings shall be in accordance with the latest edition of the *Manual on Uniform Traffic Control Devices (MUTCD)*.
2. All words and symbols shall conform to the latest edition of *Standard Alphabets for Highway Signs and Pavement Markings* printed by the U.S. Department of Transportation, Federal Highway Administration.
3. Pavement markings, either temporary or permanent are required at all times if the roadway is open to traffic.
4. All pavement markings that conflict with the desired markings shall be completely removed. Removals shall not leave the road surface scarred with an image that misleads traffic. Any excess damage or scarring of pavement shall be repaired at the Contractor's expense.
5. The proposed permanent markings shall be laid out by the Contractor in advance of the marking installation. Markings shall not be applied until the layout has been approved by the City Traffic Engineer.
6. Center lines shall be marked on all undivided arterial streets, and any other undivided street with more than two lanes and/or a speed limit of 30 mph or more.
7. Edge lines shall be marked on all non-curbed streets.



TYPICAL MIDBLOCK OR SCHOOL CROSS WALK

Accepted
Record Drawings

These plans have been reviewed for accuracy and are accepted for basic conformance to the approved construction drawings.



TYPICAL MEDIAN NOSE CENTER LINE DETAIL

RECORD DRAWING

"NOT AS BUILT"

CITY OF LEE'S SUMMIT
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
220 SE GREEN STREET
LEE'S SUMMIT, MISSOURI 64063
PHONE: (816) 969-1800 FAX: (816) 969-1809



Project: O'REILLY DEVELOPMENT SENIOR LIVING

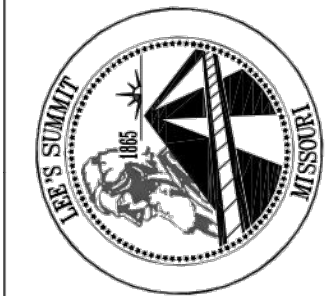
ROADWAY MARKING DETAILS

Sheet Name: STANDARD DRAWING PM-1

Drawn By: AS
Checked By: JW
Date: 09/09/2009
Project#

"NOT AS BUILT"

CITY OF LEE'S SUMMIT
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
220 SE GREEN STREET
LEE'S SUMMIT, MISSOURI 64063
PHONE: (816) 969-1800 FAX: (816) 969-1809

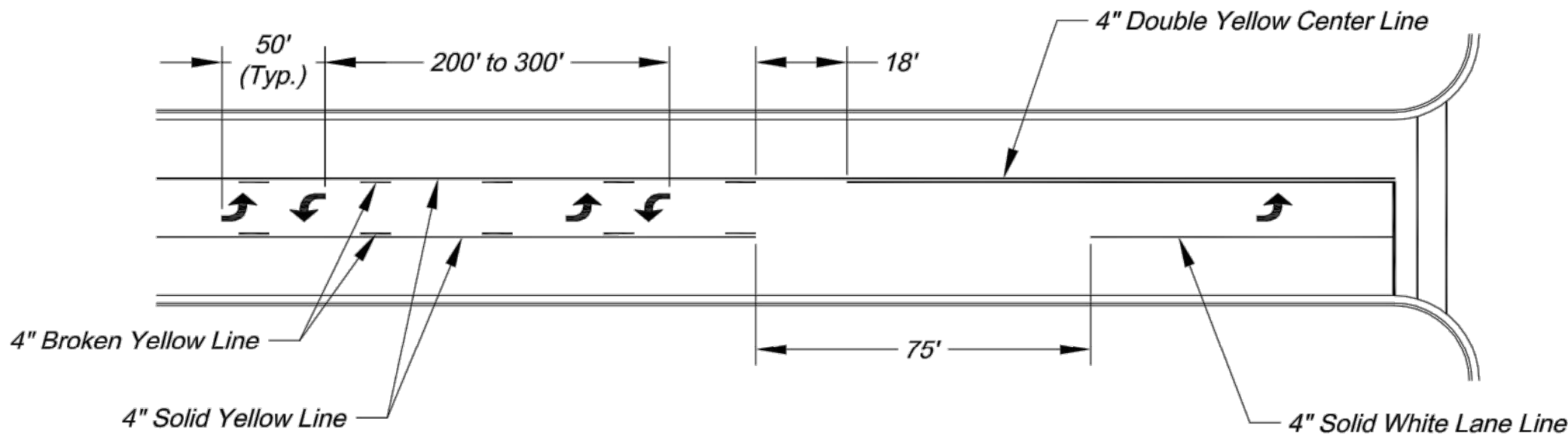


Project: O'REILLY DEVELOPMENT SENIOR LIVING
INTERSECTION MARKING DETAILS
Sheet Name: STANDARD DRAWING PM-2

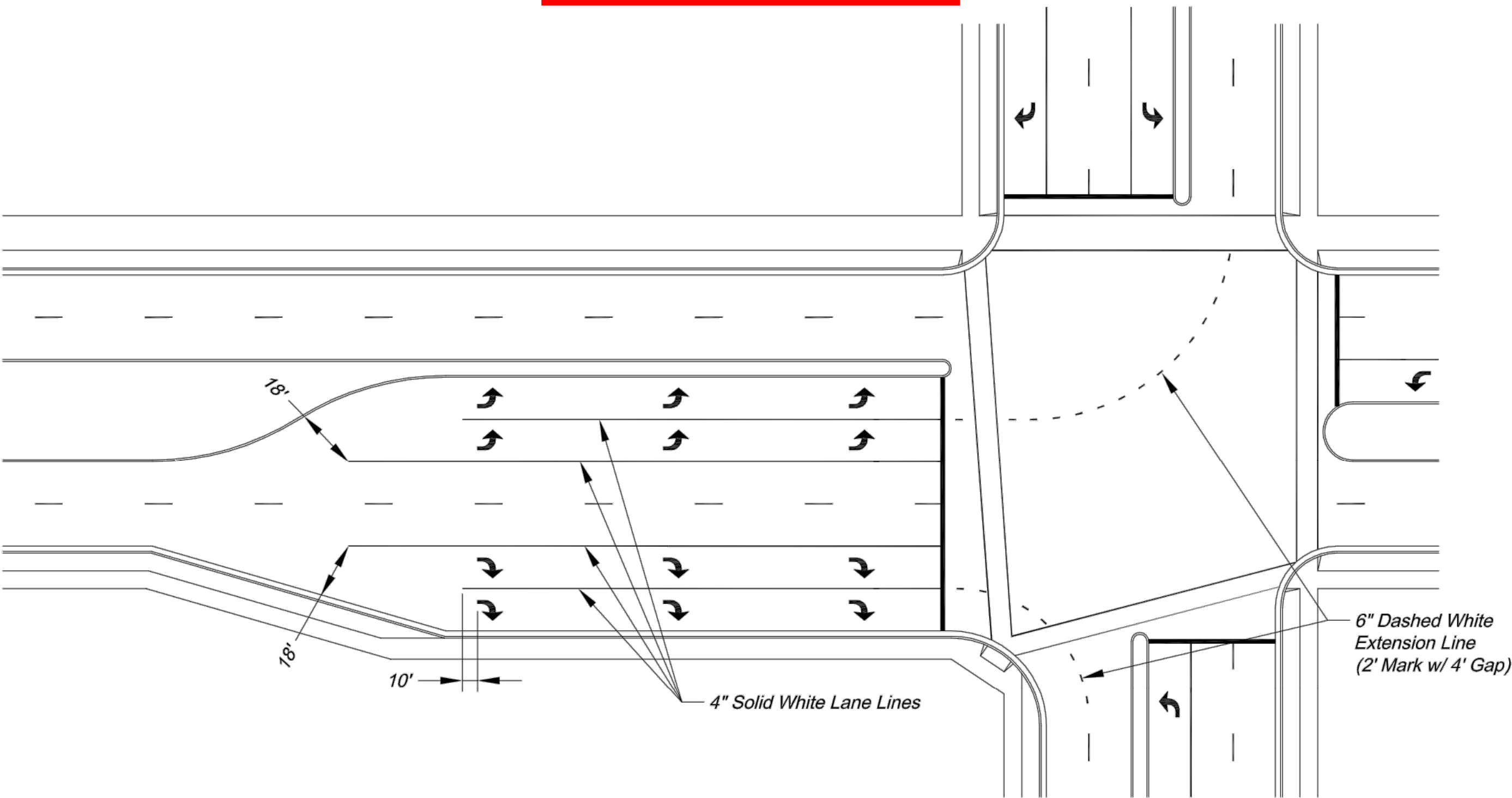
Drawn By: AS
Checked By: JW
Date: 09/09/2009
Project#

Accepted
Record Drawings

These plans have been reviewed for accuracy and are accepted for basic conformance to the approved construction drawings.

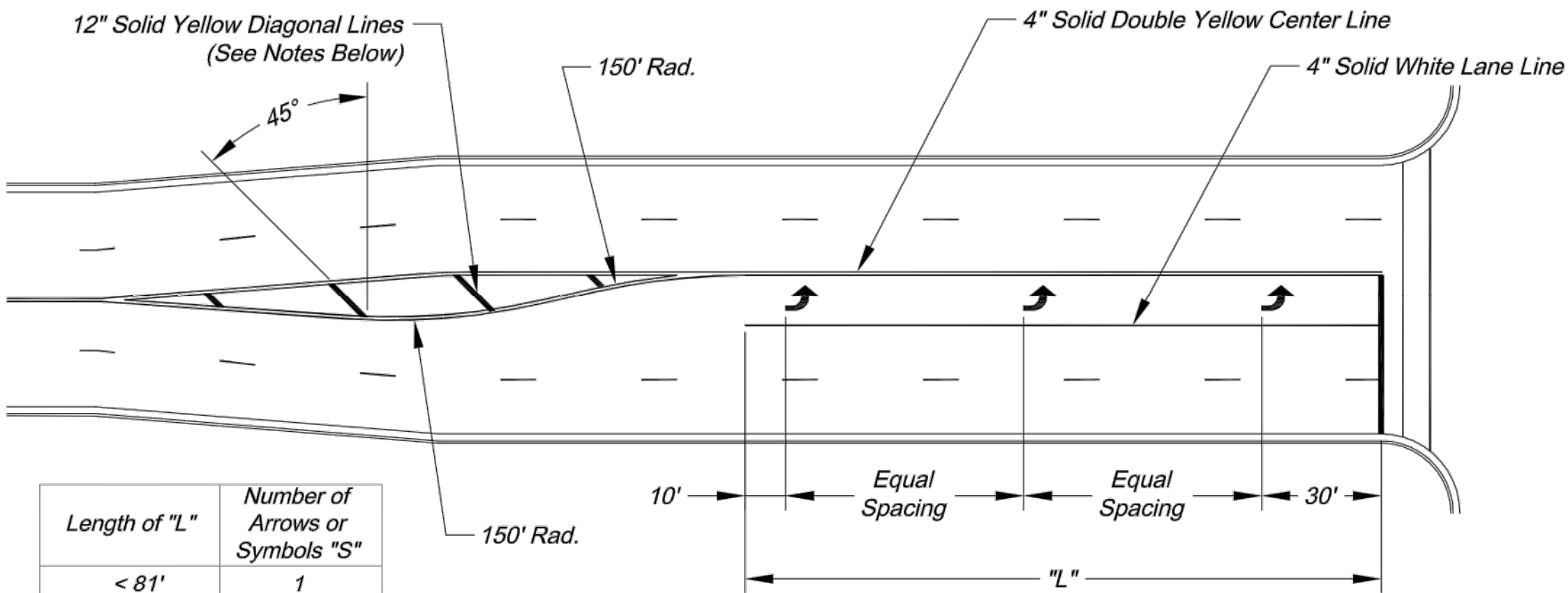


TYPICAL MARKINGS FOR TWO-WAY LEFT-TURN LANE



TYPICAL DUAL TURN LANE MARKINGS

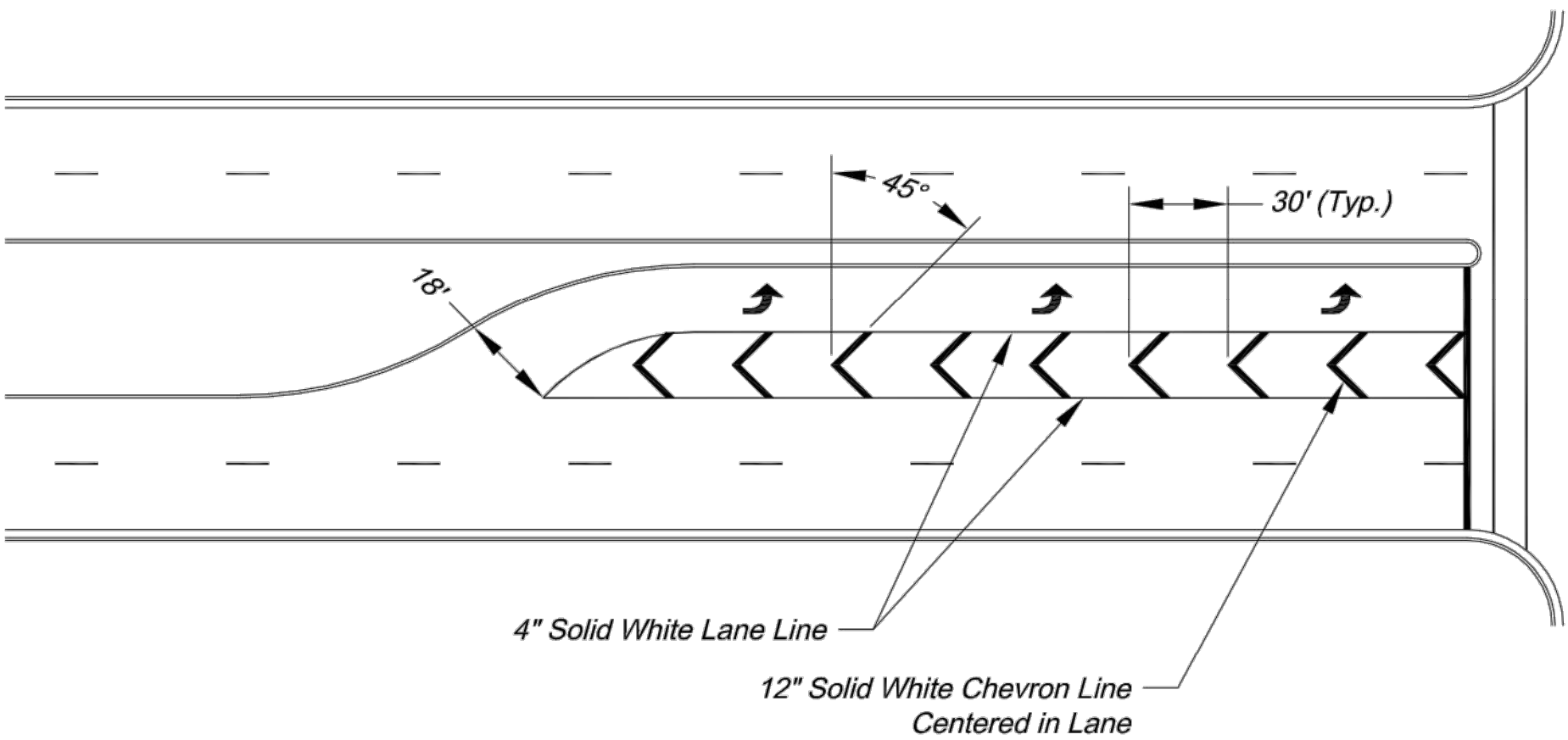
NOTE:
1. Dashed extension lines shall not extend through crosswalks.



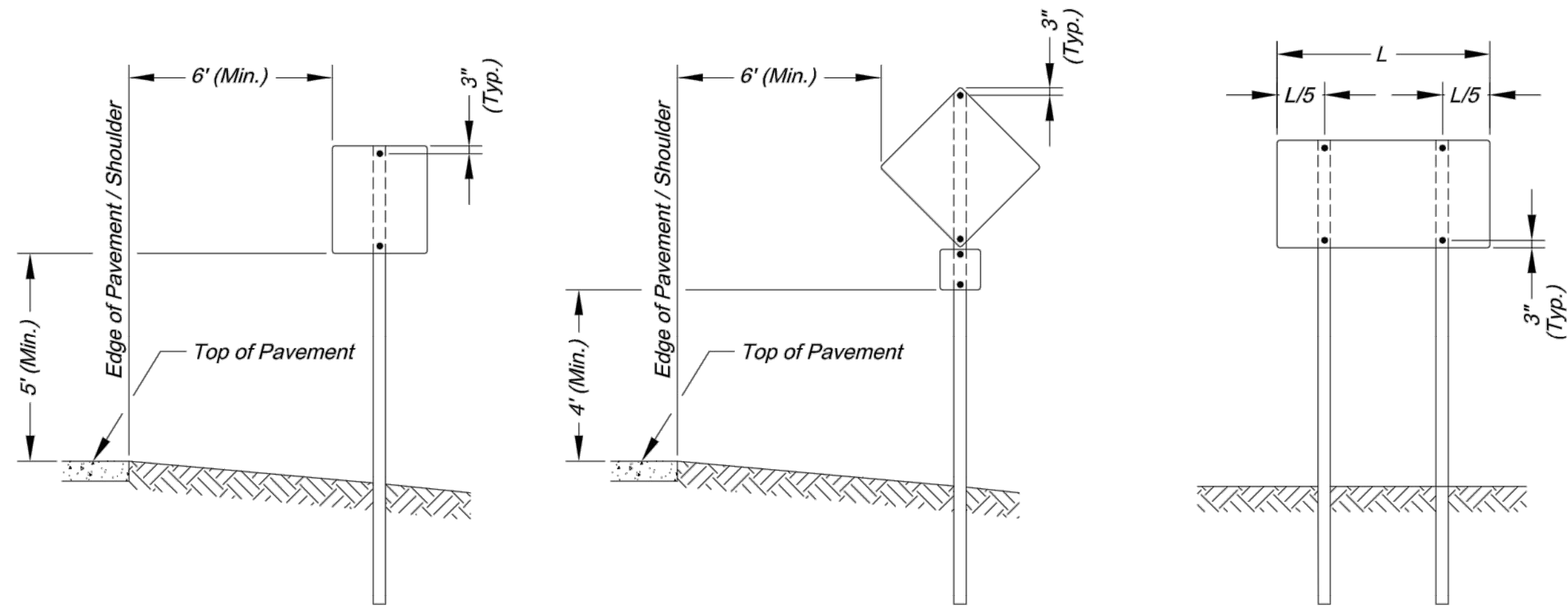
Length of "L"	Number of Arrows or Symbols "S"
< 81'	1
81' - 120'	2
121' - 200'	3
201' - 280'	4
281' - 360'	5
361' - 440'	6

TYPICAL TURN LANE MARKINGS

NOTES:
1. Diagonal lines are required between centerlines if the width of the area between the center lines is greater than 12' and/or the length of the area between center lines is greater than 250'.
2. Diagonal lines should be spaced at 5' increments, equal to the posted speed limit.
3. Equal Spacing is calculated as $(L - 40) / (S - 1)$.
4. When a through lane of traffic terminates as a mandatory turn lane, Arrow and "ONLY" symbols should be marked in the turn lane, in alternating order. The first and last symbols should be Arrows.



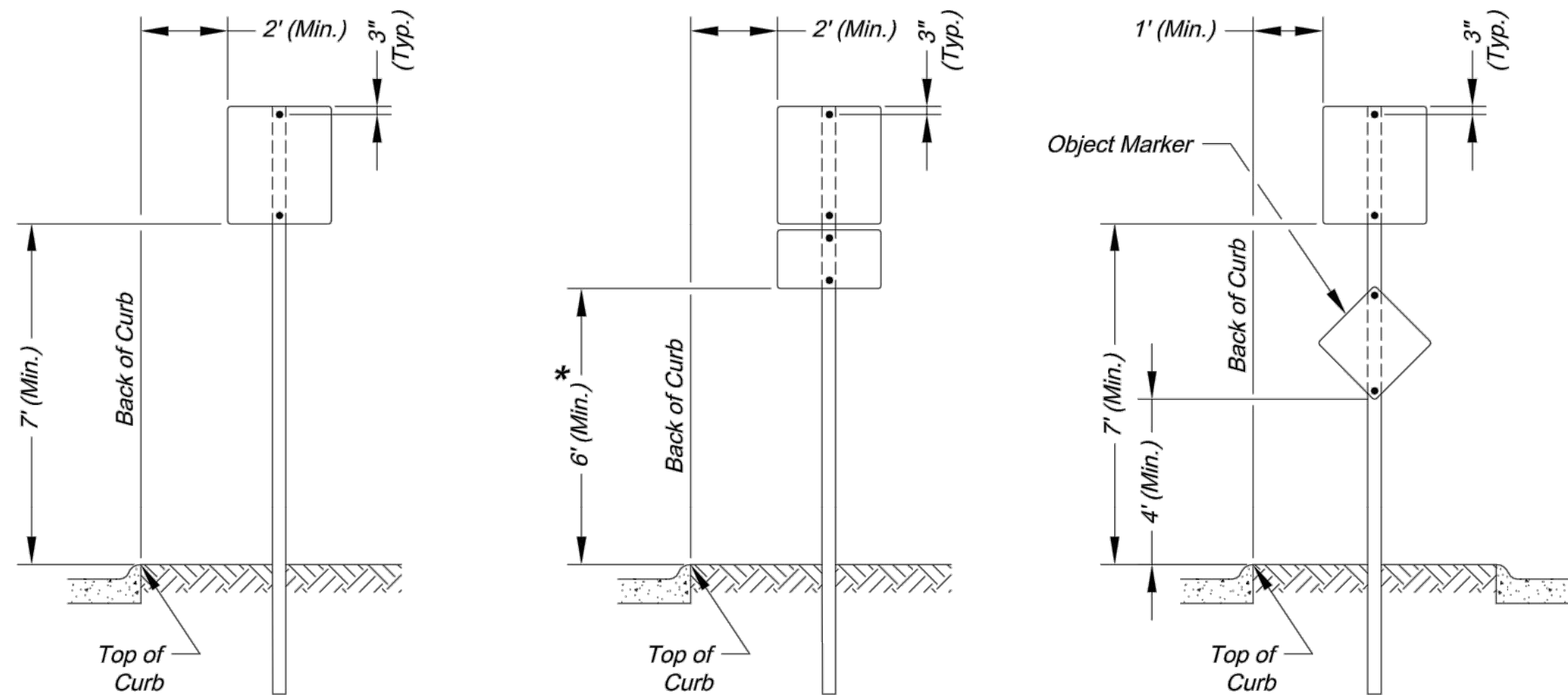
TYPICAL STRIPED OUT TURN LANE MARKINGS



SIGN INSTALLATION FOR
NON-CURBED STREET

SIGN INSTALLATION WITH
AUXILARY SIGN FOR
NON-CURBED STREET

SIGN INSTALLATION WITH
TWO SIGN POSTS



SIGN INSTALLATION FOR
CURBED STREET

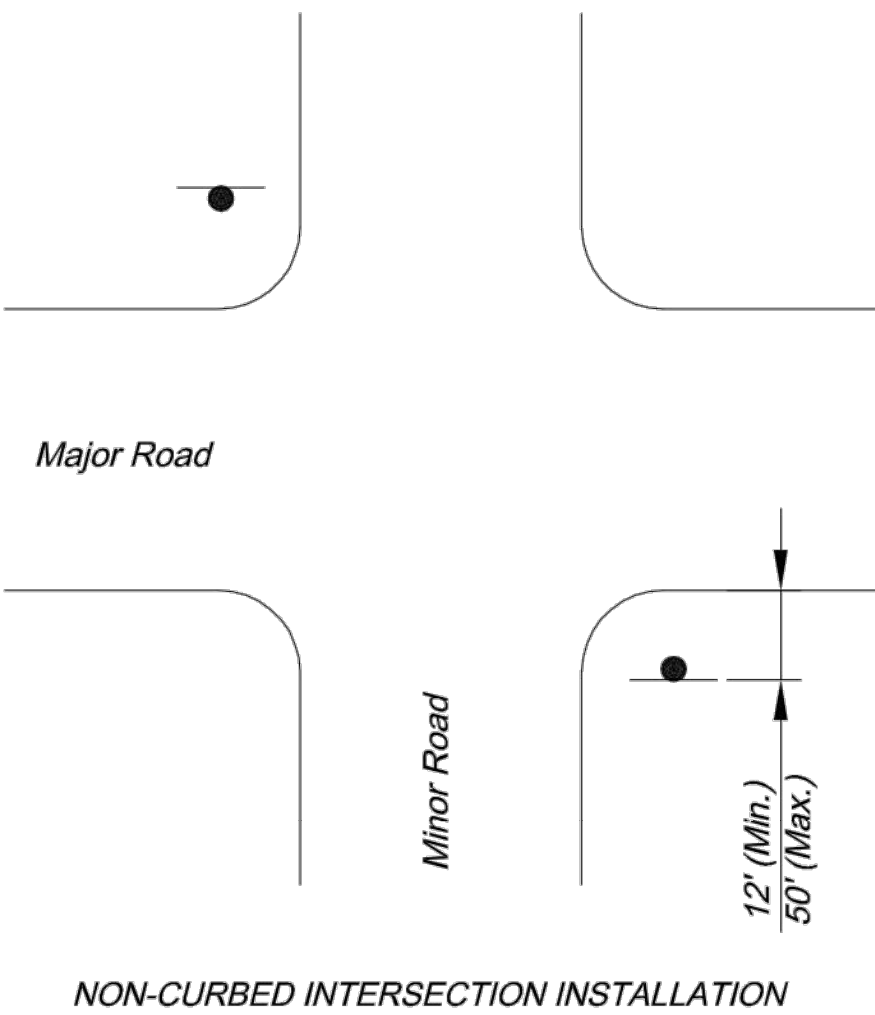
SIGN INSTALLATION WITH
AUXILARY SIGN FOR
CURBED STREET

SIGN INSTALLATION FOR
RAISED MEDIANS

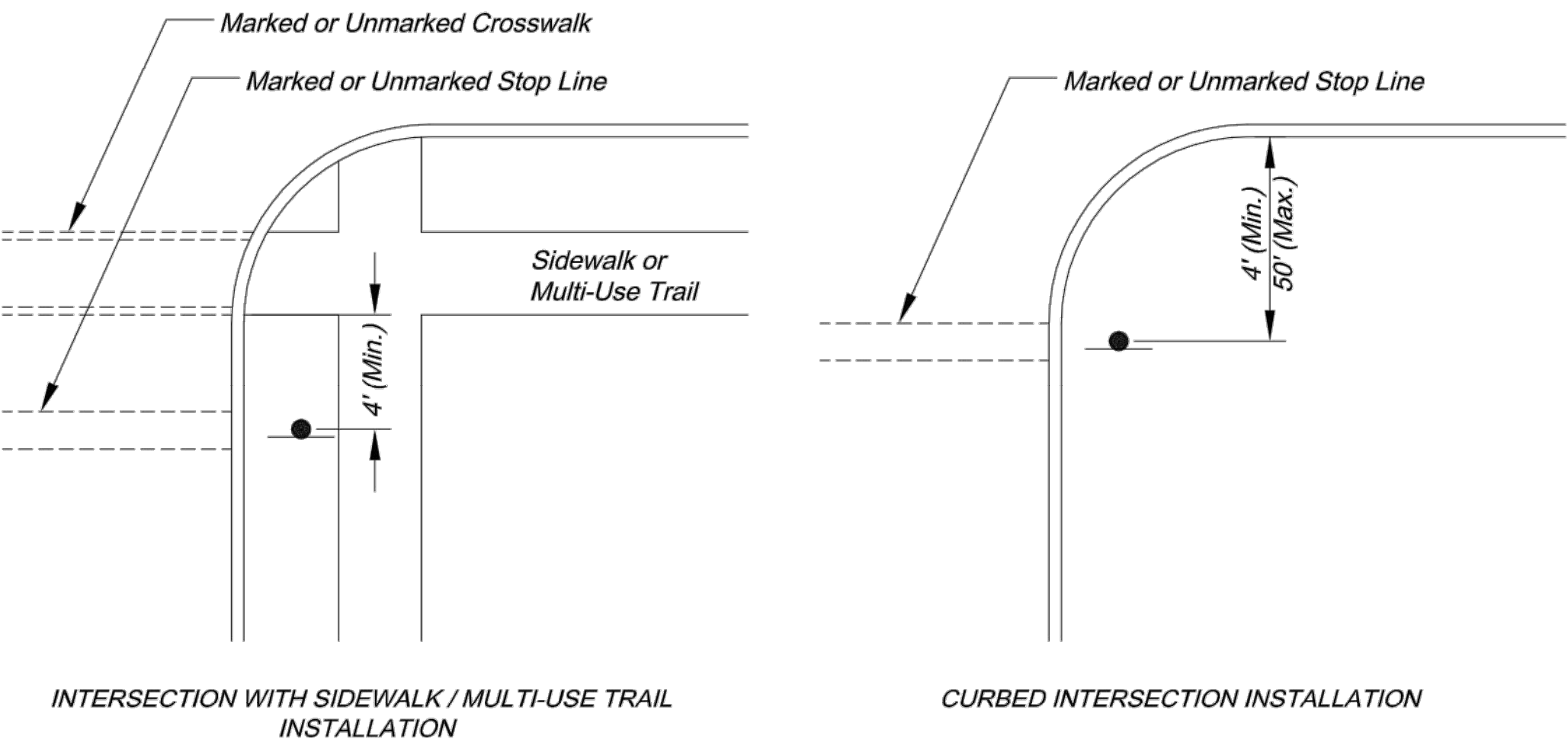
SIGN MOUNTING DETAILS

* The height to the bottom of a sign when it is located in a pedestrian walkway or extends into a walkway shall be a minimum of 80 inches above the walkway.

- NOTE:
- Generally, the sign mounting height should not be more than 1' greater than the minimum mounting height.



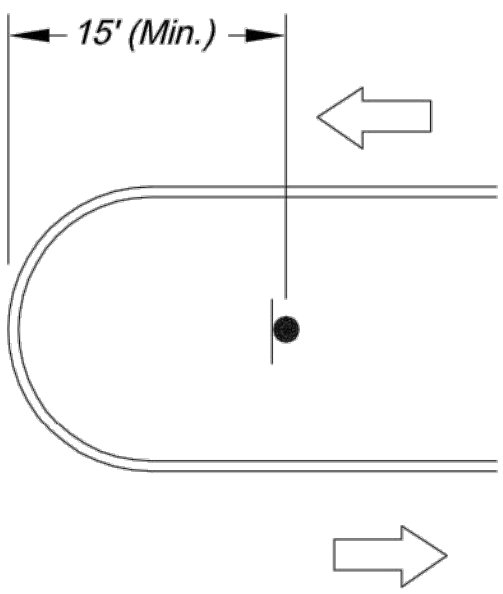
NON-CURBED INTERSECTION INSTALLATION



INTERSECTION WITH SIDEWALK / MULTI-USE TRAIL
INSTALLATION

CURBED INTERSECTION INSTALLATION

CONTROL SIGN LOCATION



TYPICAL MEDIAN SIGN LOCATION

MEDIAN SIGN LOCATION

- NOTES:
- A 4" P.V.C. sleeve shall be installed in new concrete medians at each location where a sign is to be installed.
 - For existing concrete medians, a 4" hole shall be cored into the concrete.

**Accepted
Record Drawings**

These plans have been reviewed for accuracy and are accepted for basic conformance to the approved construction drawings.

RECORD DRAWING

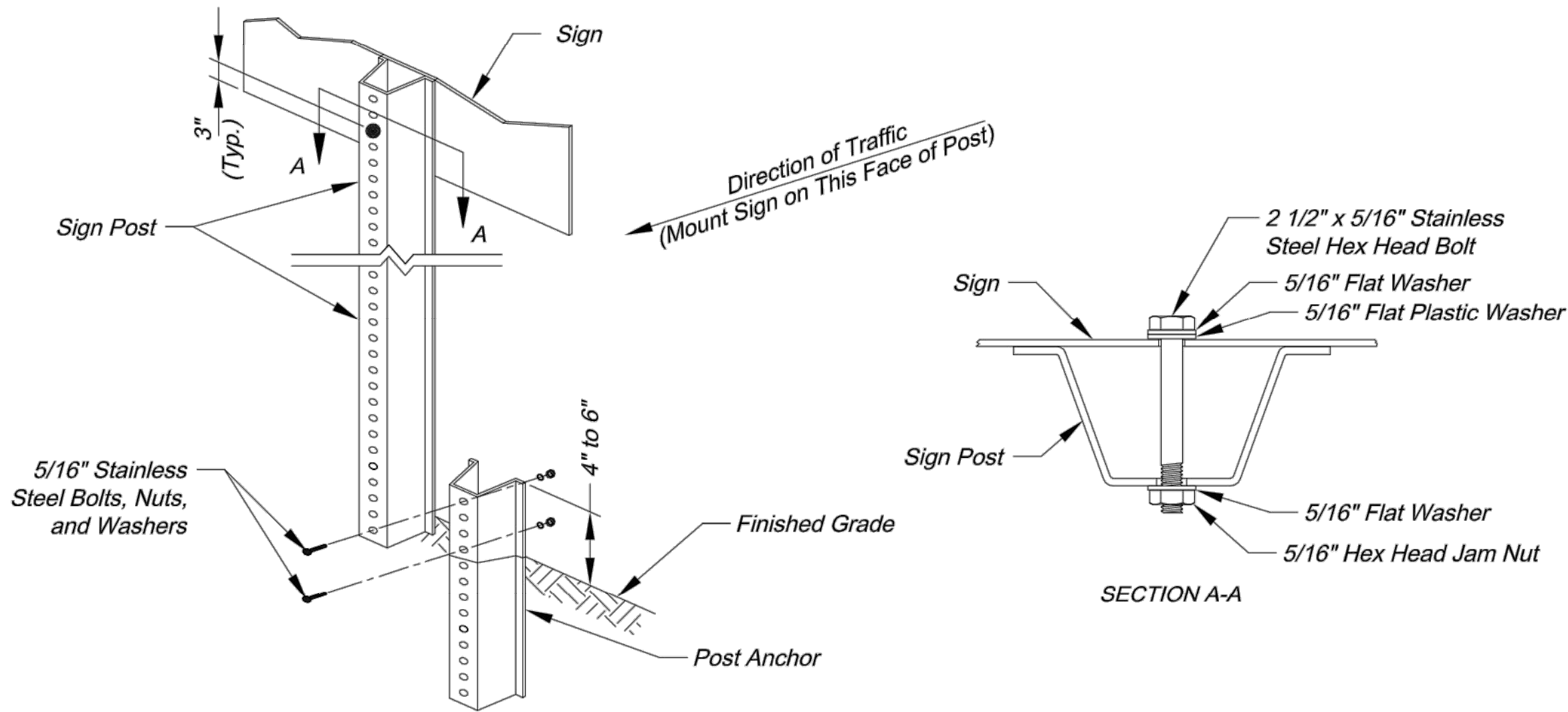
"NOT AS BUILT"

CITY OF LEE'S SUMMIT
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
220 SE GREEN STREET
LEE'S SUMMIT, MISSOURI 64063
PHONE: (816) 969-1800 FAX: (816) 969-1809



Project: O'REILLY DEVELOPMENT SENIOR LIVING
SIGN MOUNTING DETAILS
Sheet Name: STANDARD DRAWING SN-1

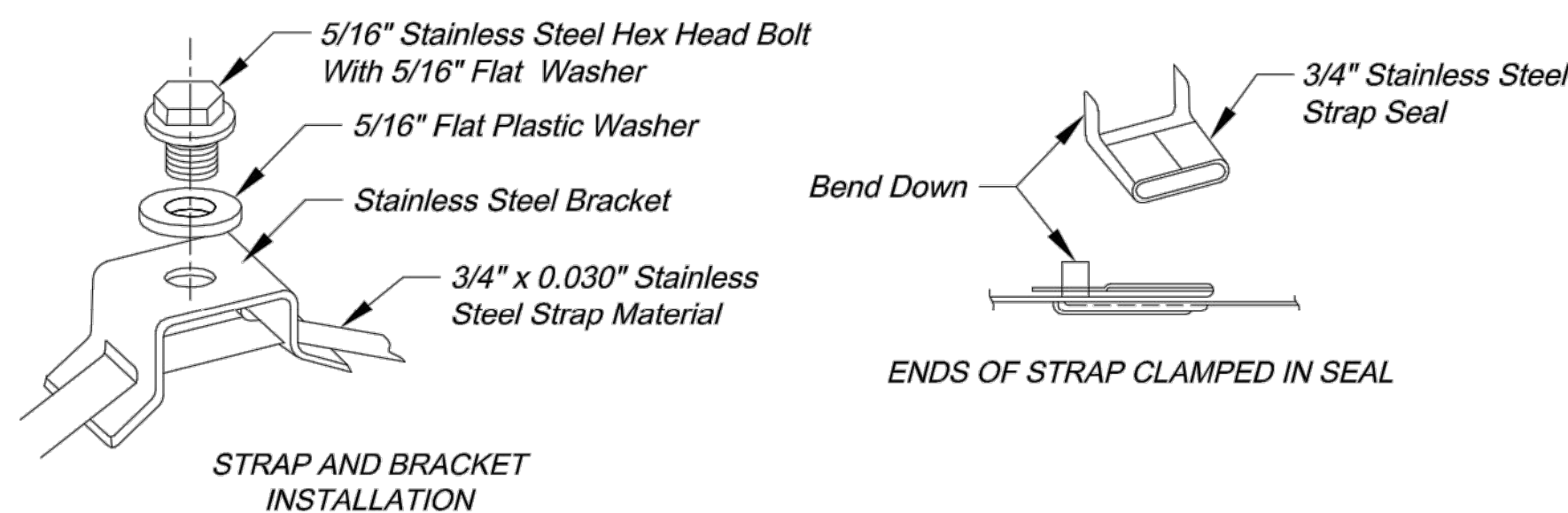
Drawn By: AS
Checked By: JW
Date: 08/26/2009
Project#



U-STEEL POST DETAILS

U-STEEL POST NOTES:

1. Splice shall be positioned entirely between finished grade line and 18" above finished grade line. Only one splice will be allowed per post.
2. U-Steel post shall be 3 lb./ft., galvanized according to ASTM A123.
3. U-Steel post can be used for installation of signs with an area of less than 2.5 square feet.
4. All posts shall be embedded a minimum of 3 feet.



STRAP TYPE SIGN SUPPORT DETAILS

METAL POLE SIGN MOUNTING NOTES:

1. Signs on metal poles shall be attached with two brackets and stainless steel bands.
2. Holes in sign for attachment to the mounting brackets shall be offset a minimum of 2 inches from the edge of the sign.
3. Holes in sign shall be located such that the sign is level.
4. All strap, bracket, and seal materials should be Type 201 stainless steel.

PERMANENT SIGNING GENERAL NOTES:

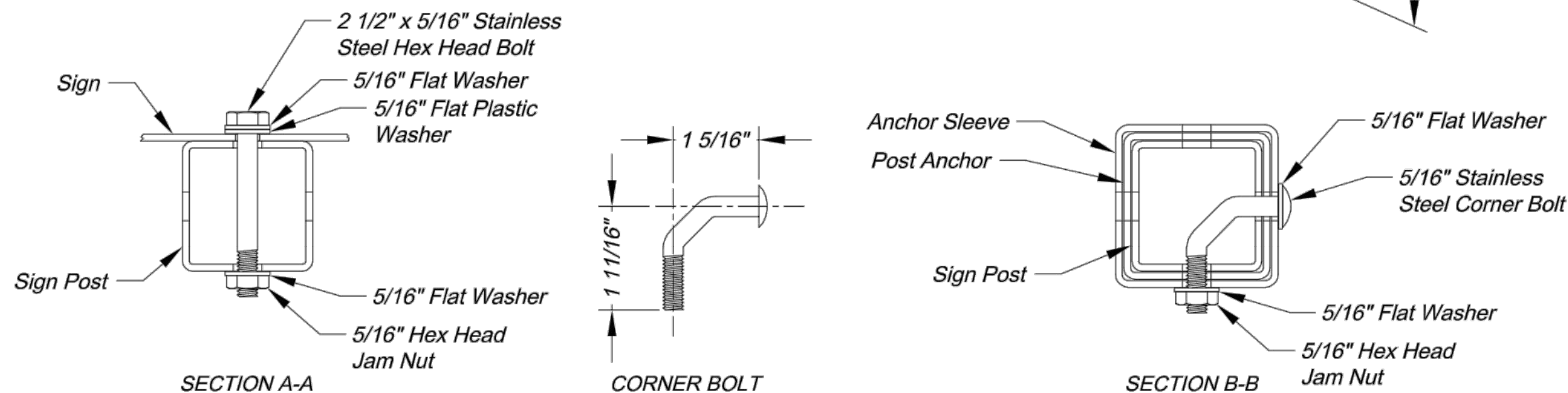
1. All signing shall be in accordance with the latest edition of the *Manual on Uniform Traffic Control Devices (MUTCD)*.
2. The Contractor is responsible for avoiding any and all utilities when installing sign posts, whether the utility is indicated on the plans or not.
3. All workmanship and materials shall be subject to the inspection and approval of the Public Works Department of the City of Lee's Summit.
4. The Contractor shall stake the location of all sign posts to be installed. The City Inspector shall inspect the staking prior to installation. Minor relocation to avoid conflicts may be allowed with the approval of the City Traffic Engineer or designee.
5. Signs shown to be installed on the side of metal poles shall be mounted with stainless steel straps or wing brackets as detailed. No signs are to be installed on wood poles. See Traffic Signal Standard Drawings for the installation of signs on mast arms.
6. All post mounted signs shall be installed with breakaway anchors according to the Standard Drawings.
7. All existing signs will be used in place during construction and protected from damage unless otherwise indicated in the plans. If the Contractor damages any existing sign or posts during construction, the Contractor will be required to replace the damaged materials with new signs or posts of the same type and size at the Contractor's expense. The Contractor shall be responsible for removing and storing any signs that are to be reinstalled on the project. All equipment shall be reinstalled in good condition.
8. Existing permanent signs and posts removed by the Contractor for construction purposes which are not to be reinstalled shall be delivered to the City's Public Works Maintenance Facility (1971 SE Hamblen Road). The Contractor shall be responsible for removing and storing equipment in good condition and is fully responsible for the equipment until it is delivered.
9. All Stop, Yield, or street name signs shall be maintained in a conspicuous location for the driving public. All Stop and Yield signs removed for construction purposes can be temporarily erected in reflectorized drums (no less than 7 feet above the pavement surface) until they can be reinstalled. Any temporary Stop or Yield sign installation to be left in place overnight will require prior approval from the City Inspector.

Accepted Record Drawings

These plans have been reviewed for accuracy and are accepted for basic conformance to the approved construction drawings.

SQUARE STEEL POST INSTALLATION SEQUENCE:

1. Sign post anchor driven partially into the ground using a drive cap with a sledge or power equipment.
2. Anchor sleeve slipped over anchor and drive into the ground together with the sign post anchor.
3. Insert sign post into the post anchor and bolt in place.



SQUARE STEEL POST DETAILS

SQUARE STEEL POST NOTES:

1. Square steel sign posts and break-away anchor shall consist of the following materials:
 - Sign Post - 14 Ga. 2" x 2" Square Steel Post
 - Post Anchor - 12 Ga. 2 1/4" x 2 1/4" x 36" Square Steel Post
 - Anchor Sleeve - 12 Ga. 2 1/2" x 2 1/2" x 18" Square Steel Post
2. 14 Gauge posts must meet a certified minimum yield strength of 60,000 psi.
3. In all installations the first hole above the finished grade line on the sign post, anchor, and anchor sleeve must be in line for the insertion of the corner bolt.
4. The maximum area for one sign post is 9.0 square feet. A sign or combination of signs with an area greater than 9.0 square feet will require two posts. Also, signs with a width greater than 36" (not including 36" x 36" diamond shaped signs) will require two posts.

RECORD DRAWING

"NOT AS BUILT"

CITY OF LEE'S SUMMIT
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
220 SE GREEN STREET
LEE'S SUMMIT, MISSOURI 64063
PHONE: (816) 969-1800 FAX: (816) 969-1809



Project: O'REILLY DEVELOPMENT SENIOR LIVING

SIGN POST DETAILS

Sheet Name: STANDARD DRAWING SN-2

Drawn By: AS

Checked By: JW

Date: 08/26/2009

Project#

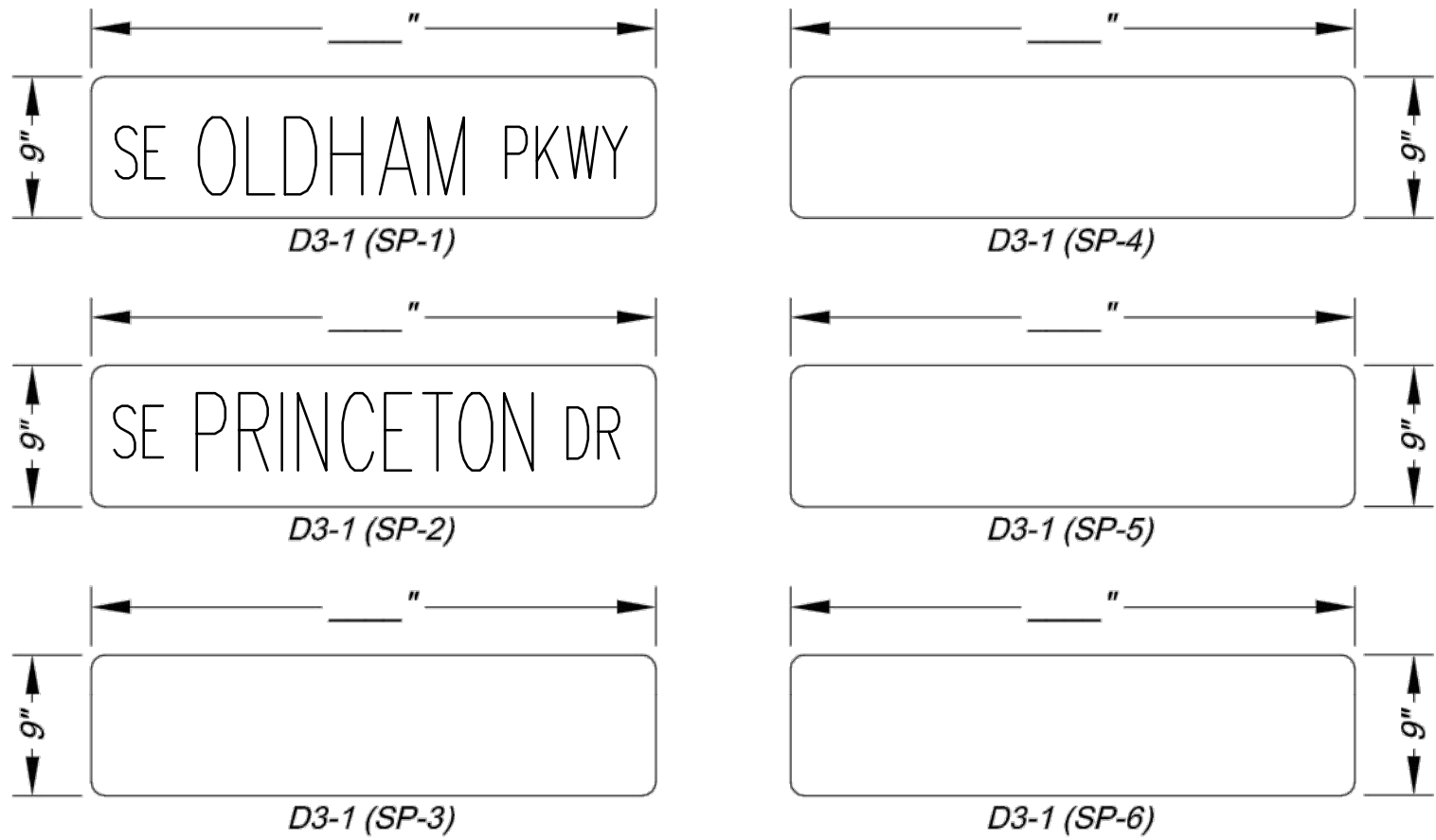
STANDARD ABBREVIATION LISTS

Named Streets	
Avenue	AVE
Boulevard	BLVD
Circle	CIR
Creek	CR
Court	CT
Crossing	XING
Drive	DR
Highway	HWY
Lane	LN
Parkway	PKWY
Place	PL
Road	RD
Street	ST
Terrace	TER
Trail	TRL
Way	WAY

Numbered Streets	
First	ST
Second	ND
Third	RD
Fourth to Tenth	TH

STREET NAME SIGN QUANTITIES

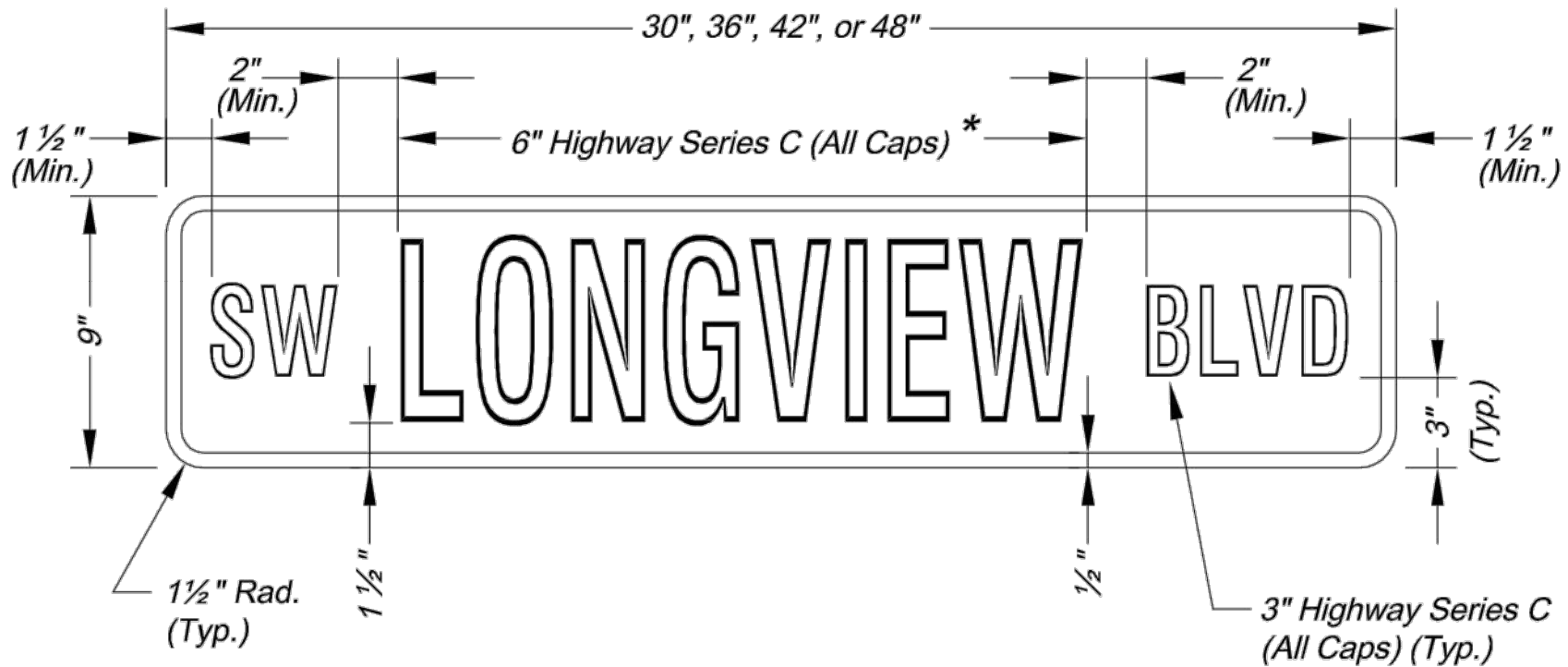
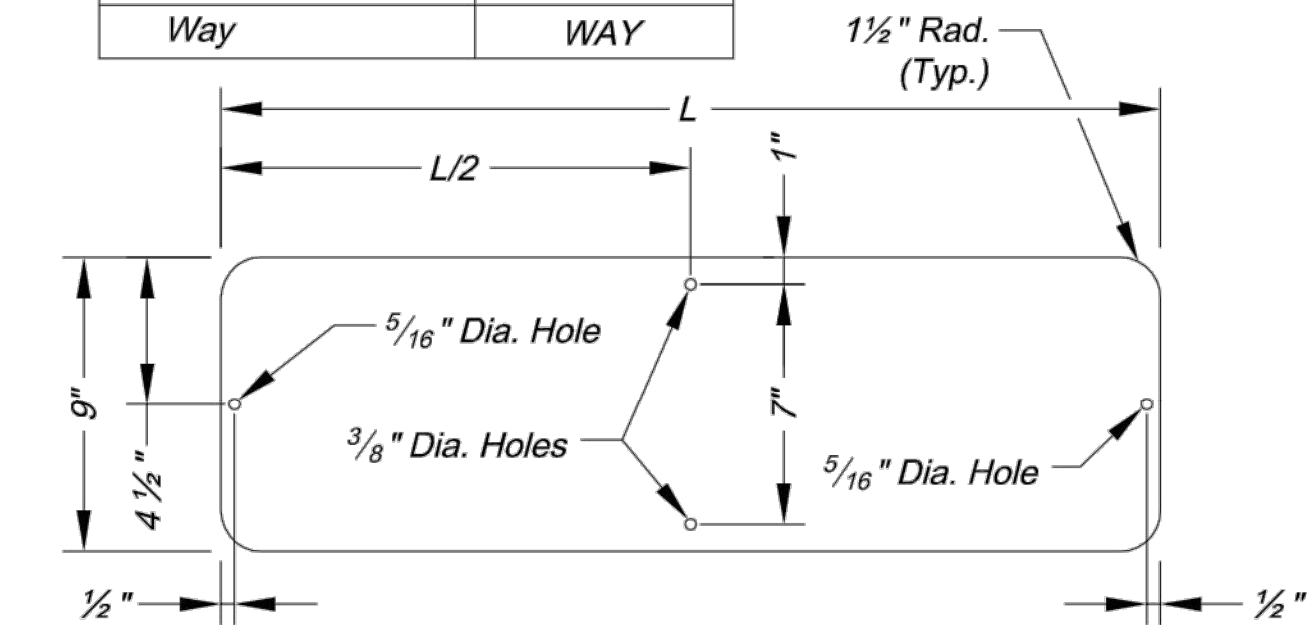
Sign Designation	Sign Size	Sign Area (Sq. Ft.)	Number	Quantity (Sq. Ft.)
D3-1 (SP-1)	9" x 48"	3	2	6
D3-1 (SP-2)	9" x 48"	3	2	6



PROJECT SIGN DETAILS

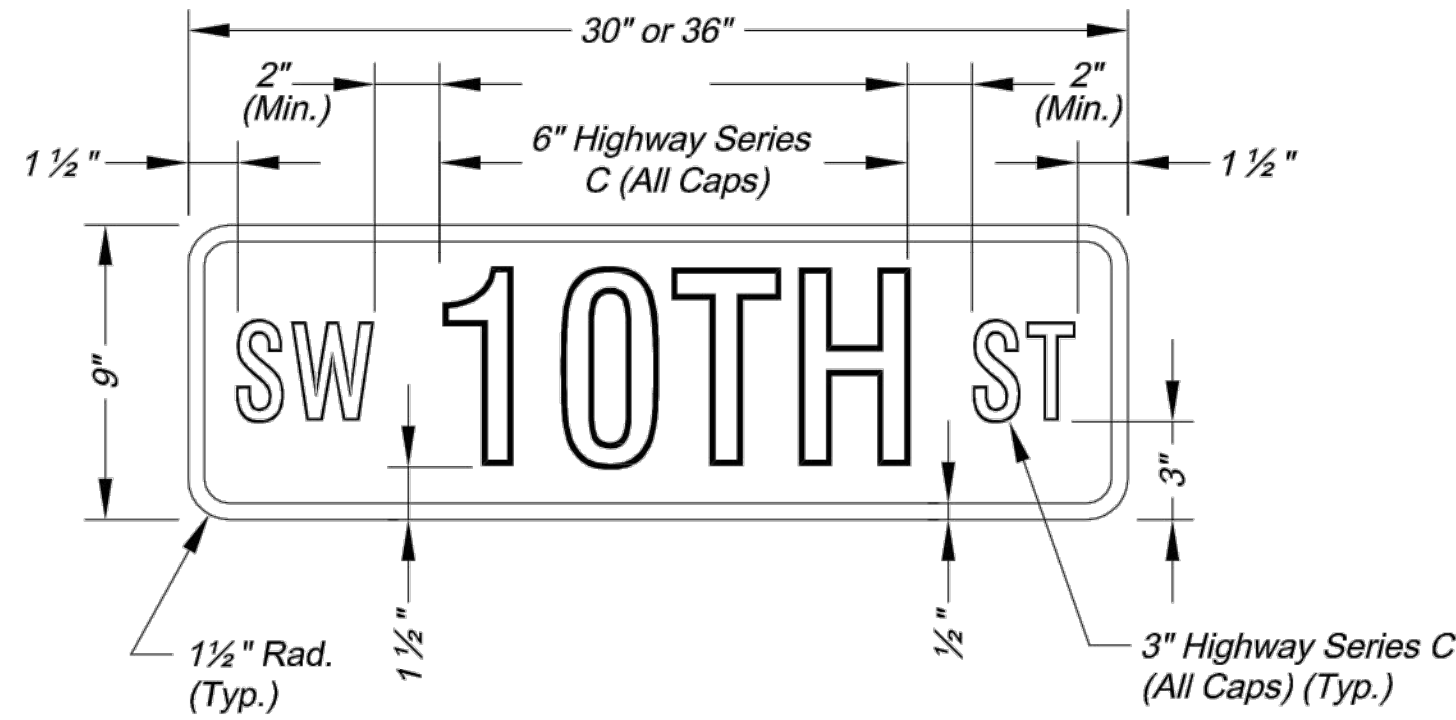
STREET NAME SIGN BLANK DETAILS

For Mounting on Square Steel Posts

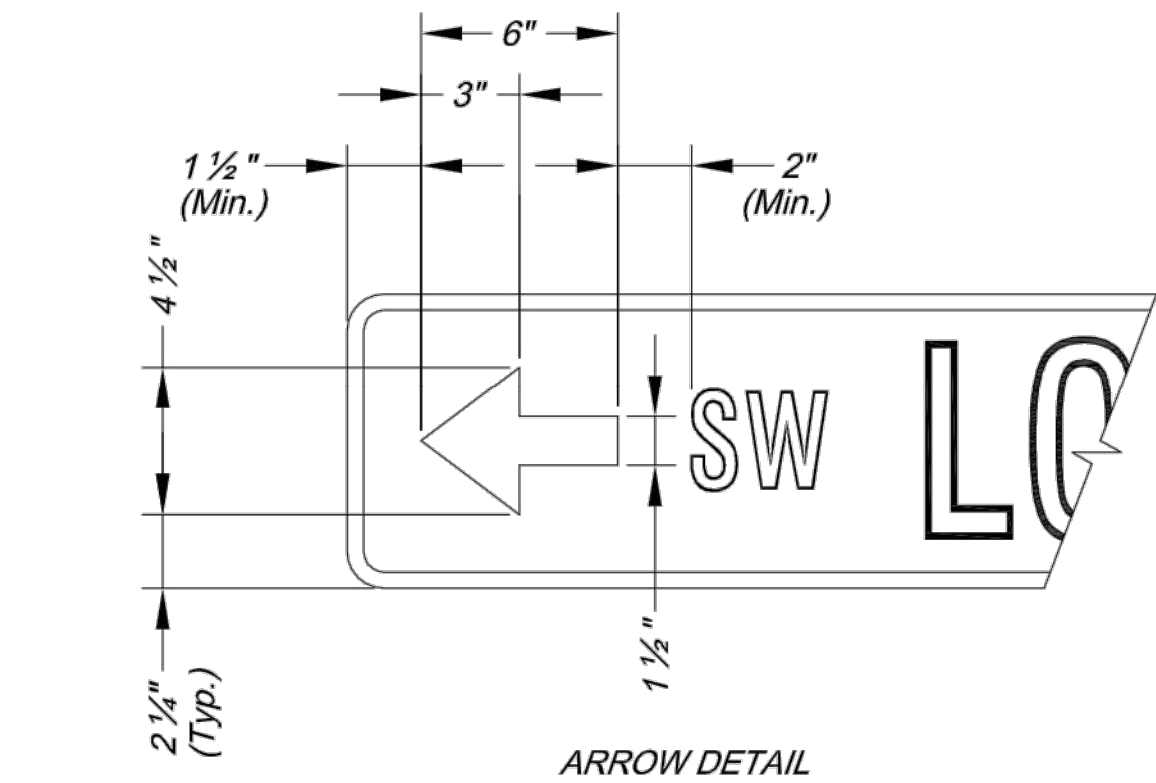


NAMED STREET NAME SIGN DETAIL

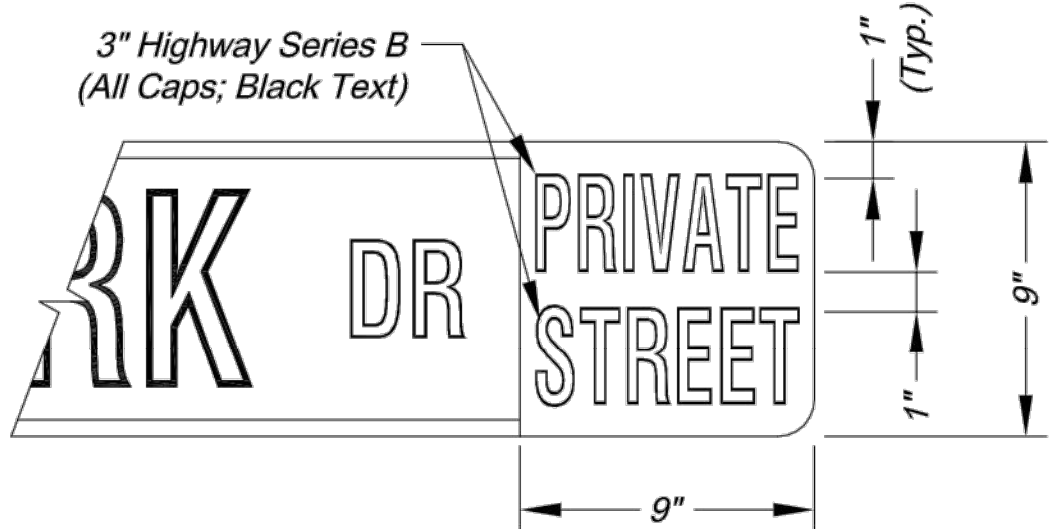
* Use Highway Series B (All Caps) in lieu of series C if necessary to fit text on a 36" sign blank.



NUMBERED STREET NAME SIGN DETAIL



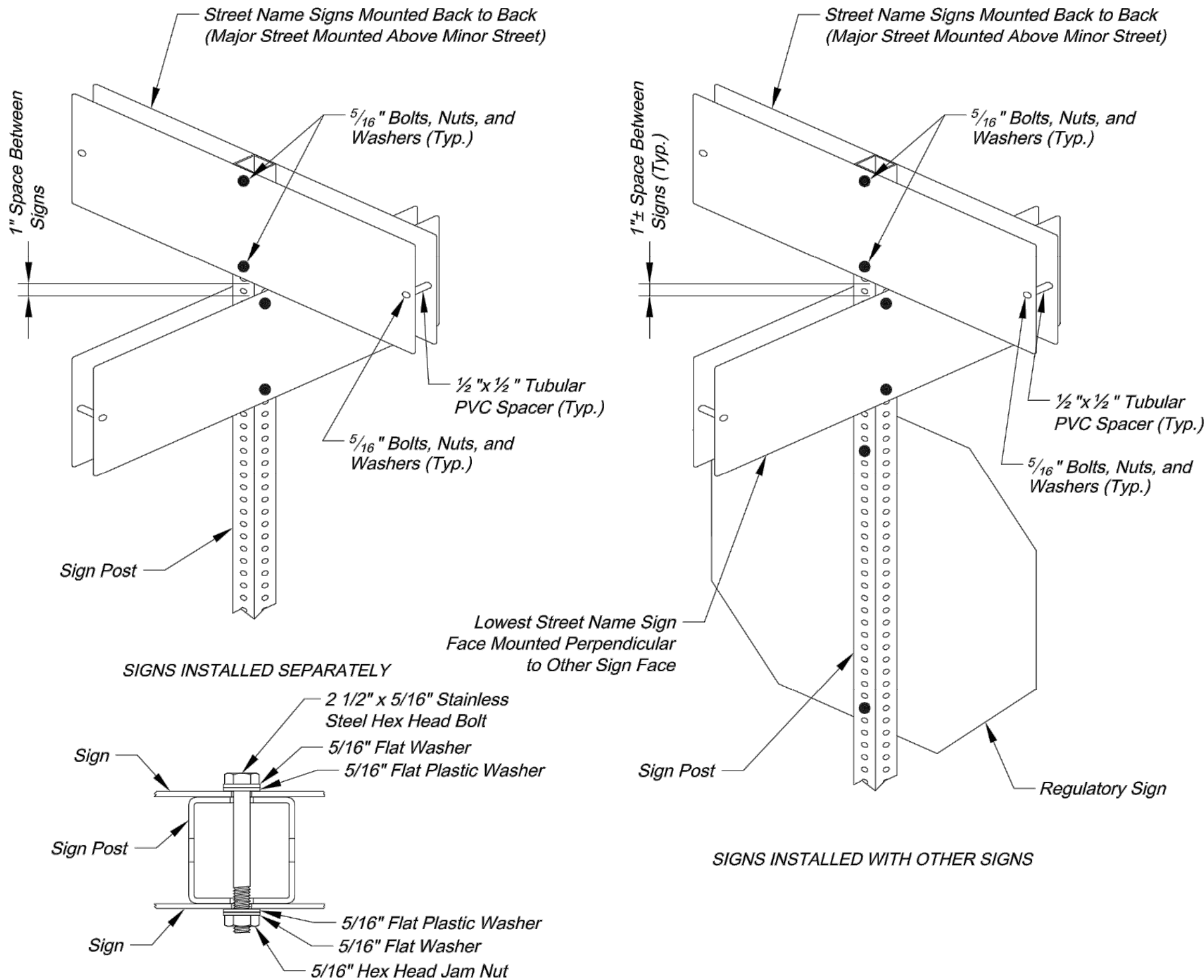
ARROW DETAIL



PRIVATE STREET TAG DETAIL

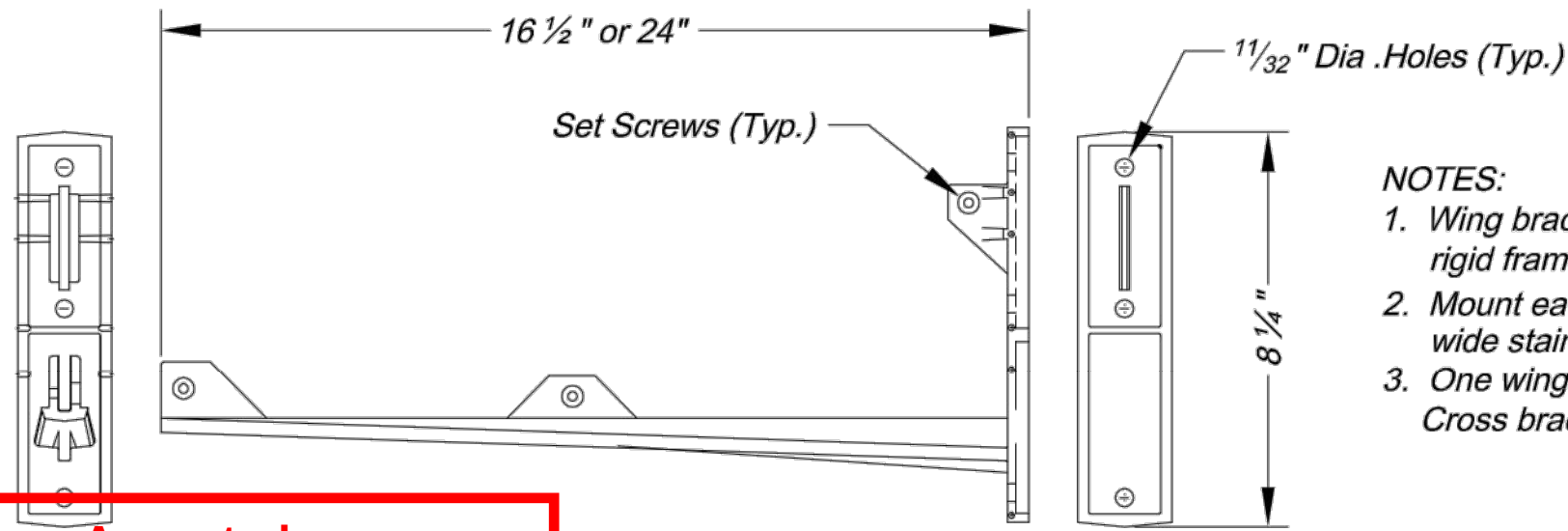
- NOTES:
- For all street name signs, the legend shall be white and the background shall be green.
 - Arrows shall be added to street name signs where the name of a street changes at an intersection. Street name signs with arrows are to be installed on each side of the intersection to indicate the change in names. Arrows shall be white.
 - The "PRIVATE STREET" tag should be added to the end of street name signs to indicate where a street that is outside the right-of-way intersects a public street. The background for the "PRIVATE STREET" tag shall be yellow.

STREET NAME SIGN FACE DETAILS



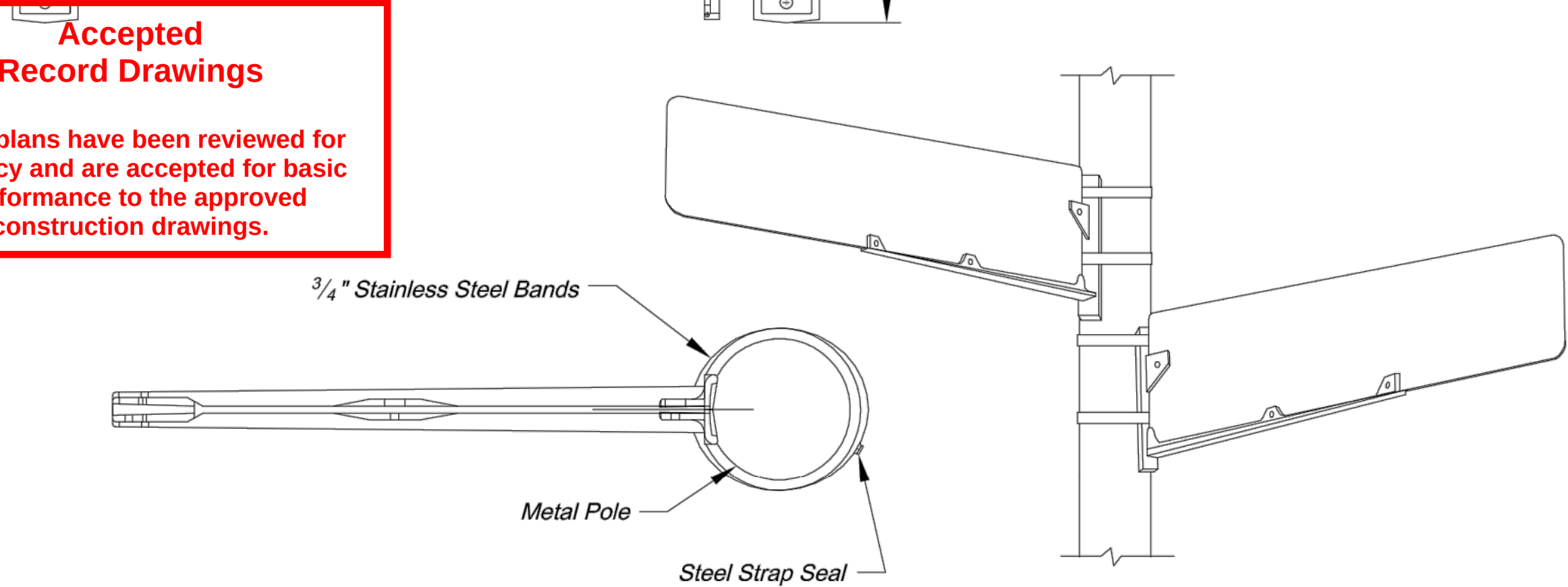
PLAN VIEW

SQUARE STEEL POST MOUNTING DETAILS



NOTES:

- Wing bracket shall be an L-shaped cantilever of T-beam rigid frame 380-3 aluminum alloy construction.
- Mount each wing bracket to metal pole using two 3/4" wide stainless steel straps.
- One wing bracket shall be installed per each sign. Cross brackets are not allowed.



WING BRACKET MOUNTING DETAILS

RECORD DRAWING

"NOT AS BUILT"

CITY OF LEE'S SUMMIT
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
220 SE GREEN STREET
LEE'S SUMMIT, MISSOURI 64063
PHONE: (816) 969-1800 FAX: (816) 969-1809

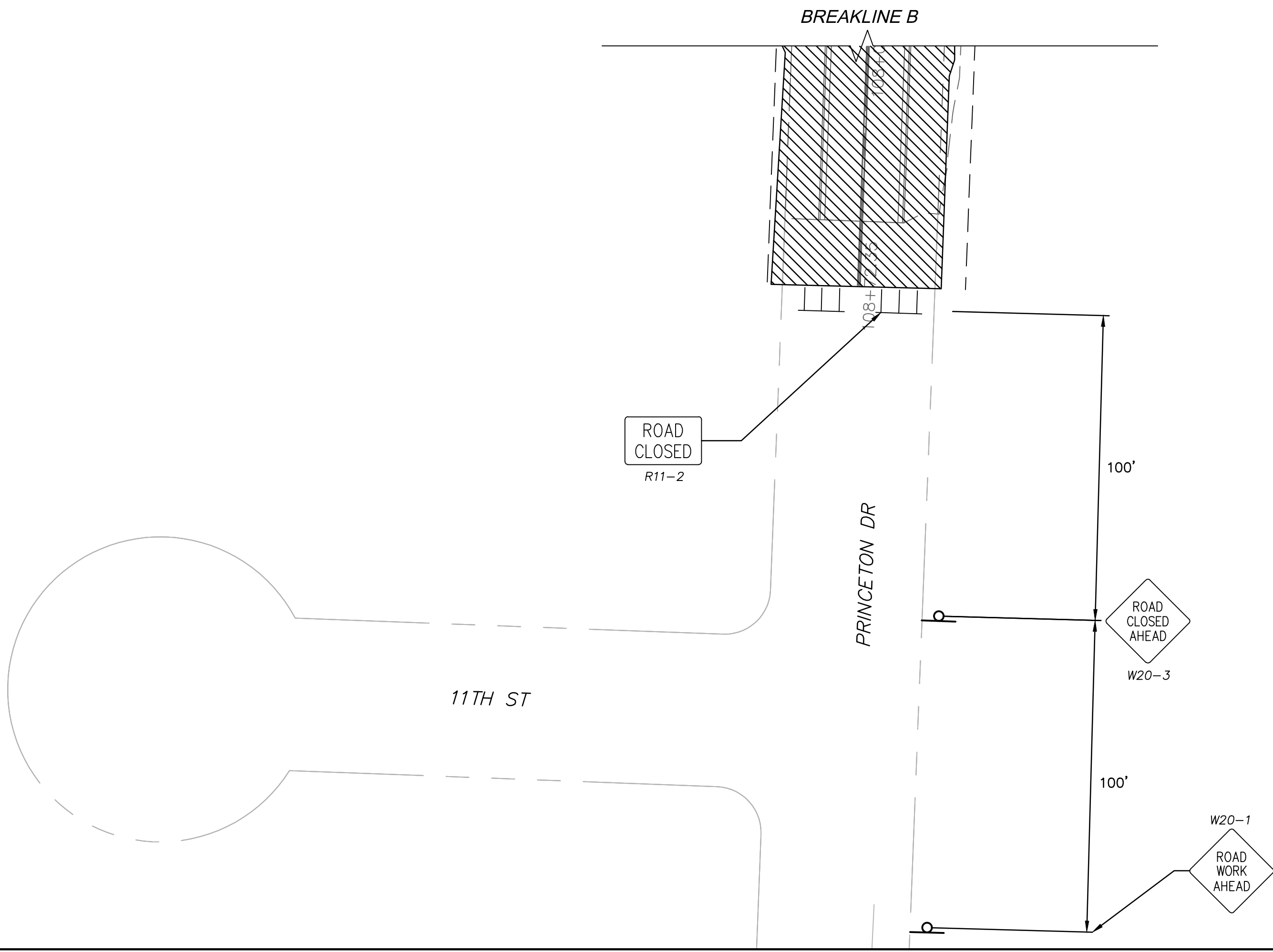
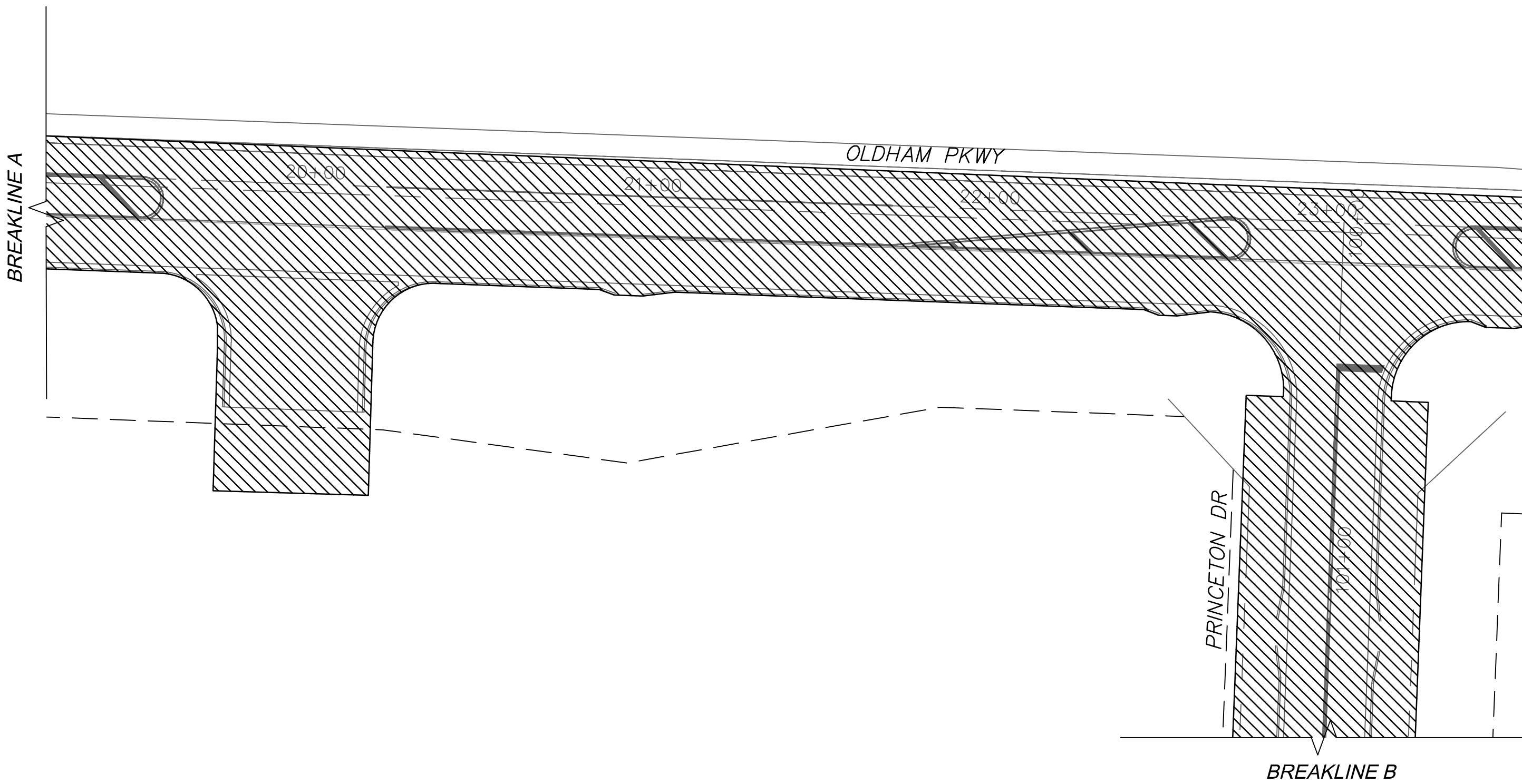
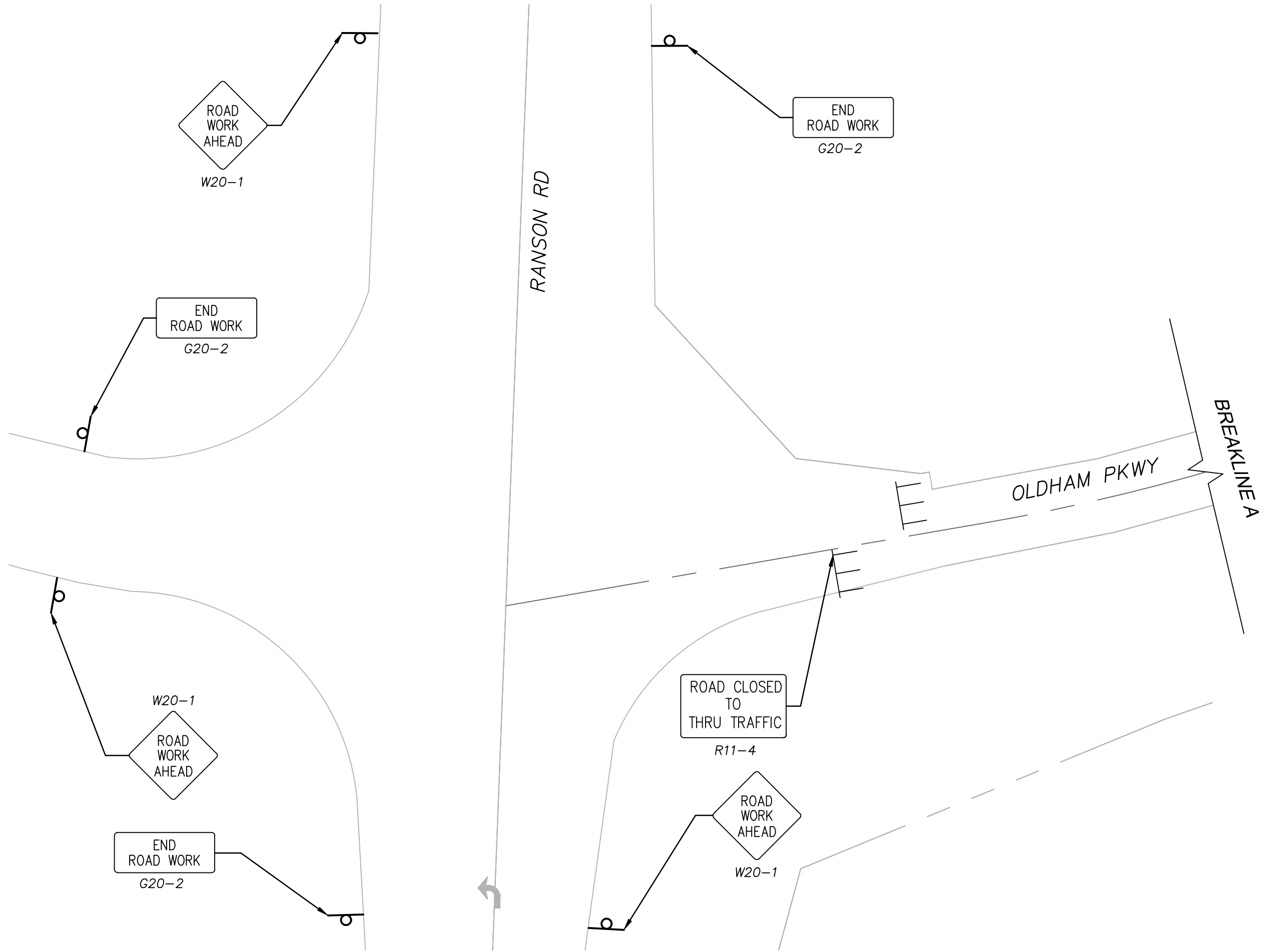


Project: O'REILLY DEVELOPMENT SENIOR LIVING
STREET NAME SIGN DETAILS
Sheet Name: STANDARD DRAWING SN-3



Drawn By: AS
Checked By: JW
Date: 08/26/2009
Project#

DWG: F:\2018\
DATE: Jul 25,

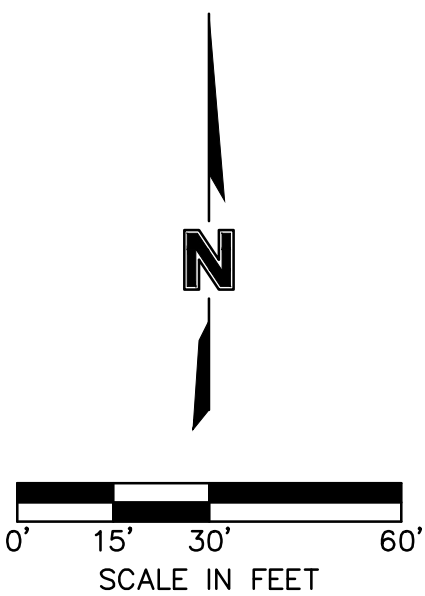


**Accepted
Record Drawings**

These plans have been reviewed for accuracy and are accepted for basic conformance to the approved construction drawings.

LEGEND

 - Type III Barricade
 - Sign Symbol

[illegible]

TRAFFIC CONTROL	
OREILLY DEVELOPMENT SENIOR LIVING FACILITY OLDHAM PARKWAY & PRINCETON DRIVE IMPROVEMENTS	
LEE'S SUMMIT, MISSOURI	2019

C.O.A. NO.: 001592
DRAWN BY: LZ
CHECKED BY: JAC
APPROVED BY: JSS
QA/QC BY: JSS
PROJECT NO.: 018-1450
DWG NO.: T_TFTC_81450
DATE: 07.19.19

SHEET
T33 OF 70

TRAFFIC CONTROL

OREILLY DEVELOPMENT SENIOR LIVING FACILITY
OLDHAM PARKWAY & PRINCETON DRIVE IMPROVEMENTS

LEE'S SUMMIT, MISSOURI

2019

RECORD DRAWING



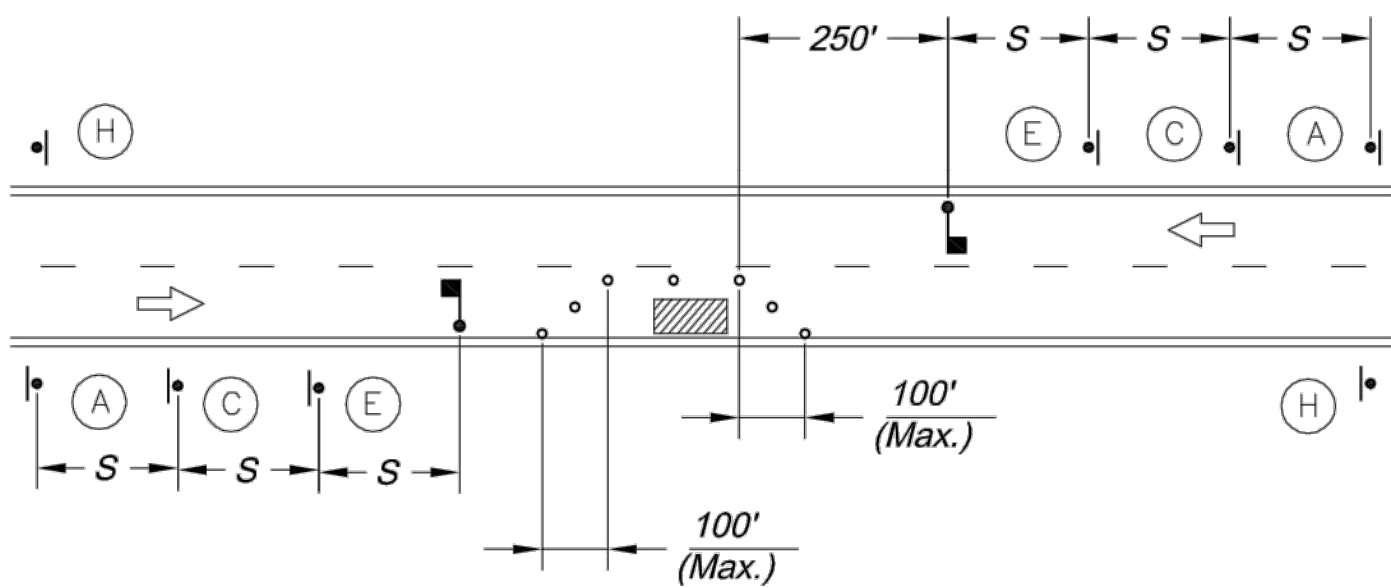
"NOT AS BUILT"

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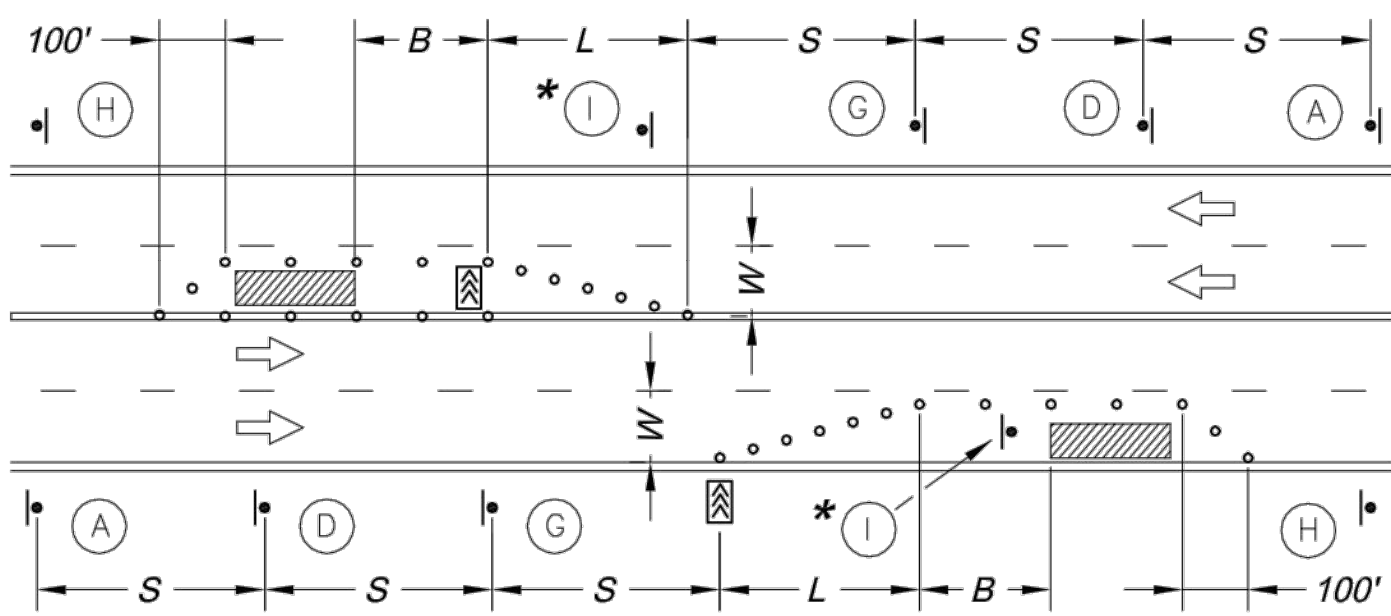
Olsson Engineering - MO State Certificate of Authority #001592
7301 West 133rd Street, Suite 200 TEL 913.381.1170
Overland Park, KS 66213-4750 FAX 913.381.1174 www.olsson.com

SYMBOL LEGEND

- Work Area
- Channelizer
- Sign
- Arrow Panel
- Barricade
- Flagger
- Direction of Travel

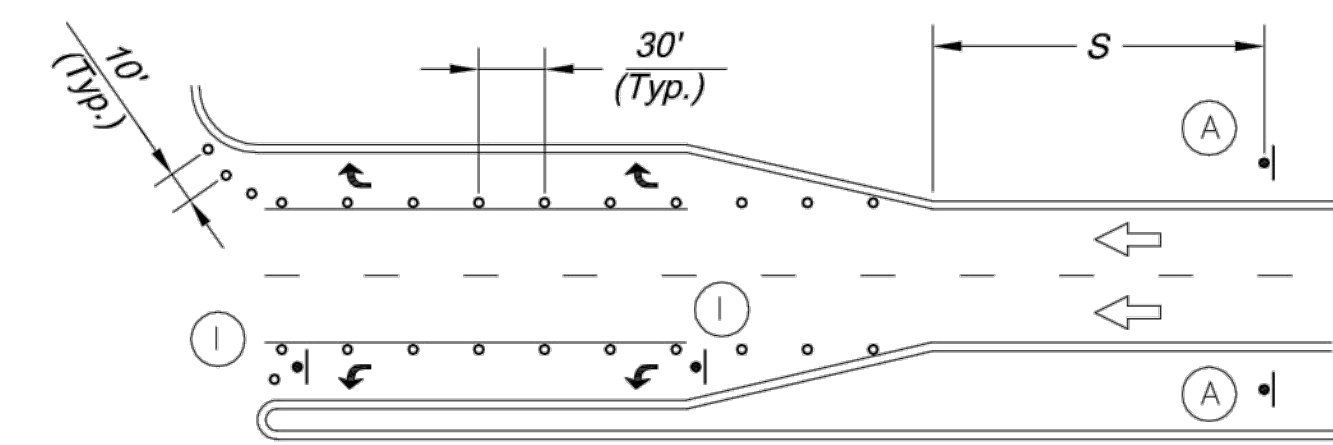


LANE CLOSURE - TWO LANE STREET



LANE CLOSURE - FOUR LANE STREET

* Install Signs Every 200 Feet Throughout the Closed Lane or As Needed



TURN LANE CLOSURE

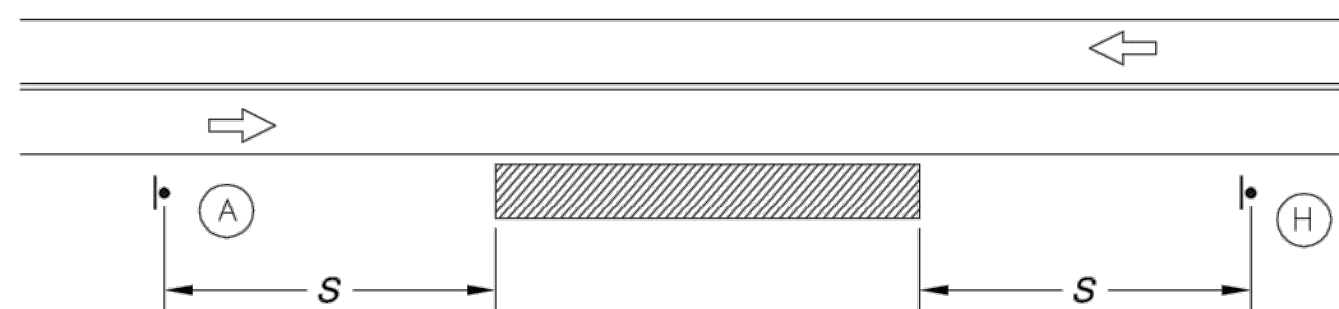
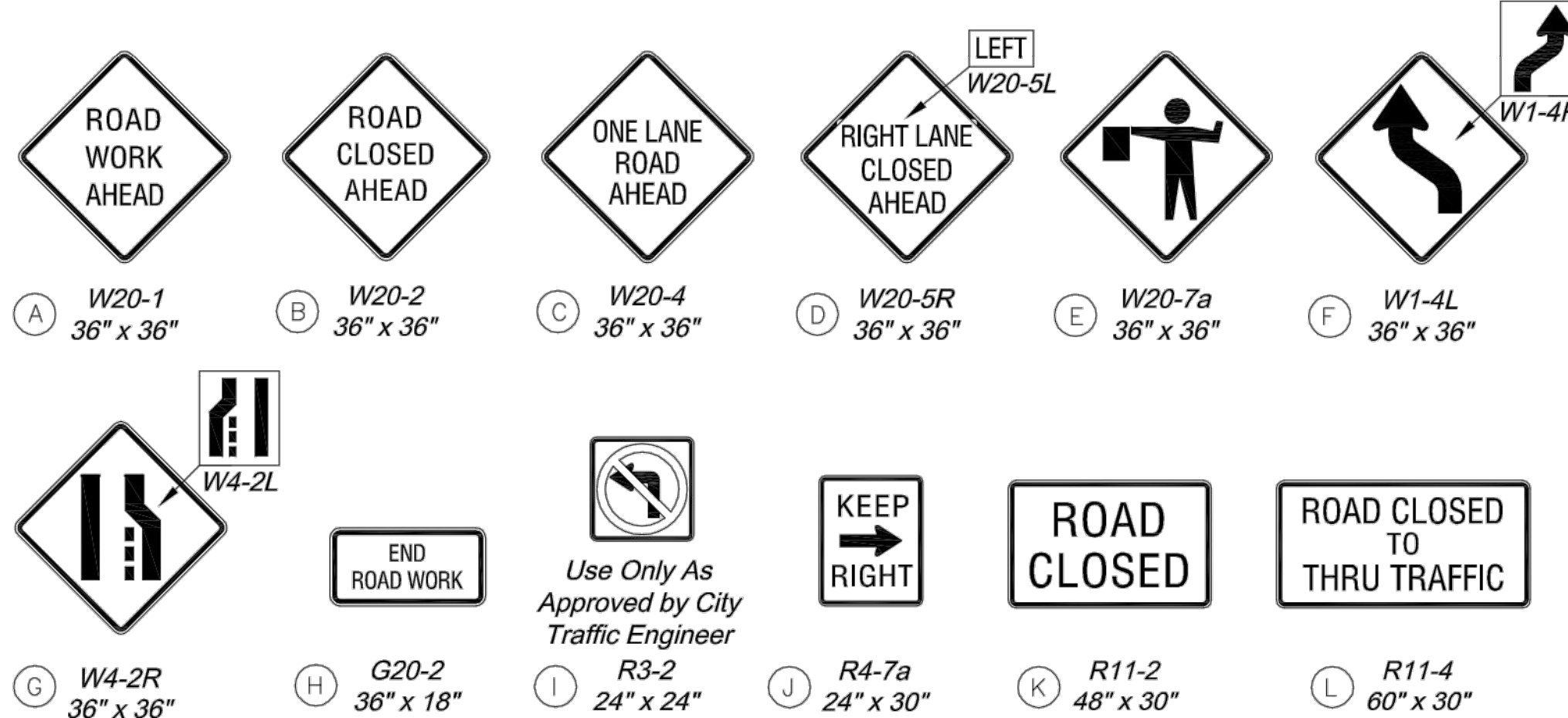
Sign Spacing "S"	
Speed Limit (mph)	Spacing (Feet)
25	100
30 - 35	250
≥ 40	350

Taper Dimensions (Feet)				
Speed Limit (mph)	Minimum Taper Length "L", per Lane Width "W"			Minimum Number of Channelizers
	10	11	12	
25	105	115	125	6
30	150	165	180	7
35	205	225	245	8
40	270	295	320	9
45	450	495	540	13

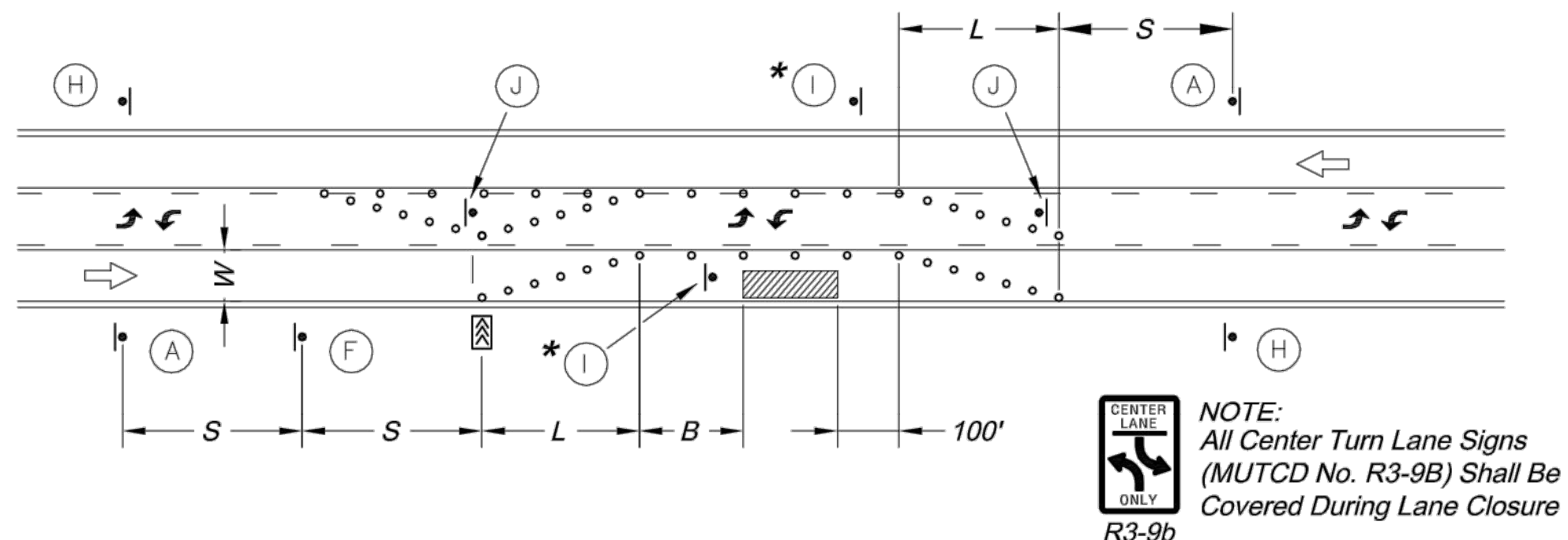
Guidelines for Length of Longitudinal Buffer Space "B"	
Speed Limit (mph)	Length (Feet)
25	35
30	55
35	85
40	120
45	170

Maximum Channelizer Spacing		
Speed Limit (mph)	Within Taper (Feet)	Outside Taper (Feet)
25	25	50
30	30	60
35	35	70
40	40	80
45	45	90

SIGN LEGEND

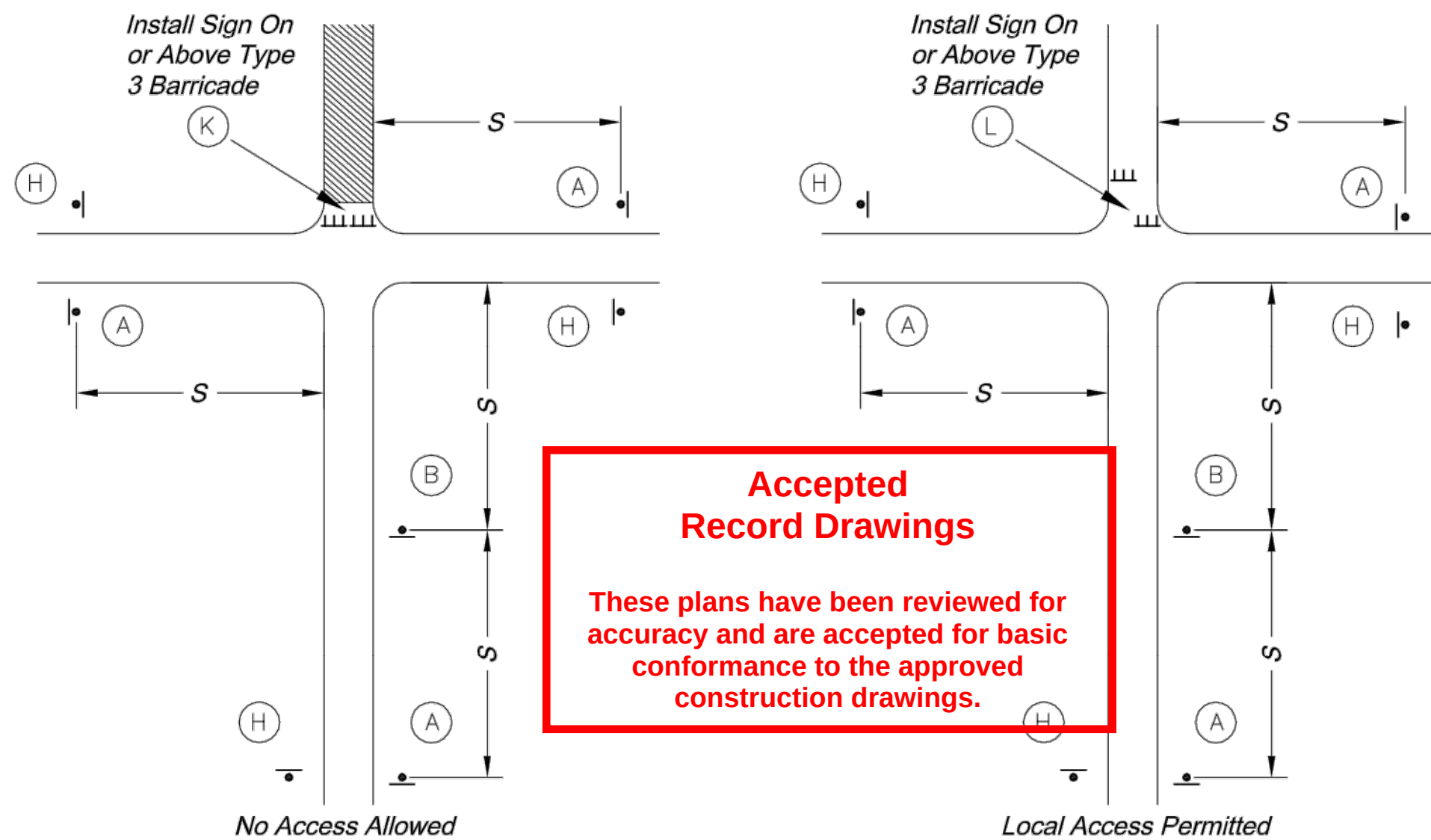


TYPICAL SIGNING FOR WORK ADJACENT TO THE STREET



LANE CLOSURE - THREE LANE STREET

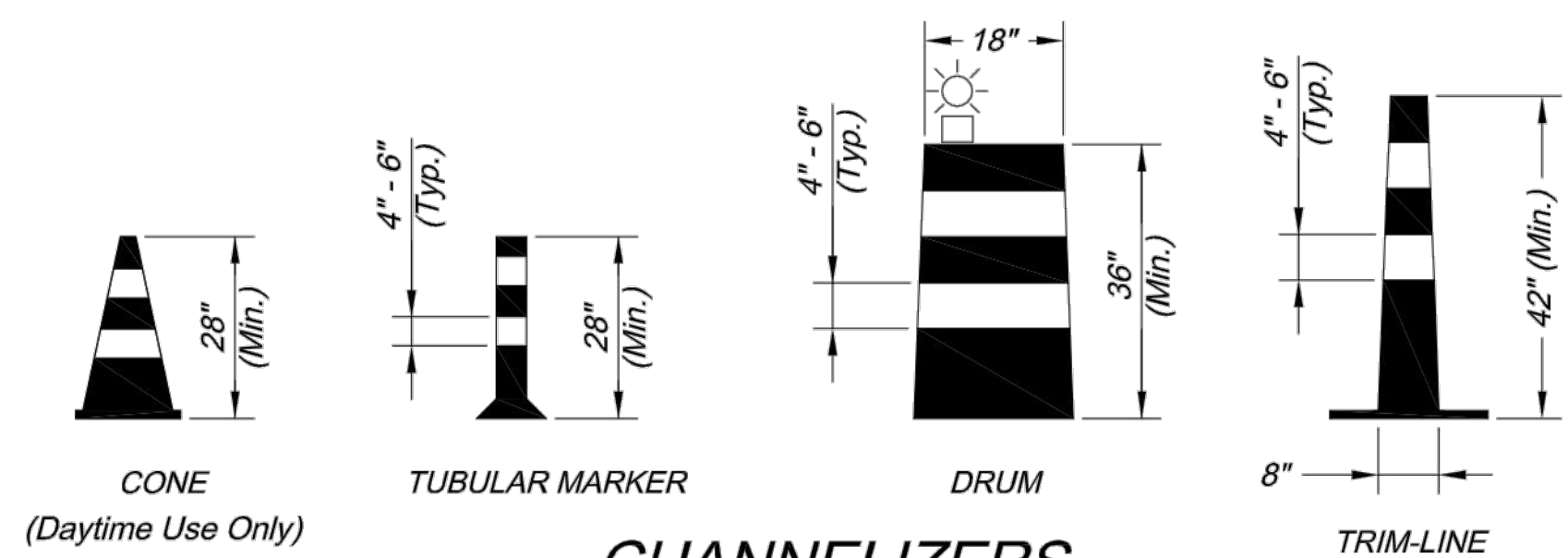
* Install Signs Every 200 Feet Throughout the Closed Lane or As Needed



TYPICAL STREET CLOSURE

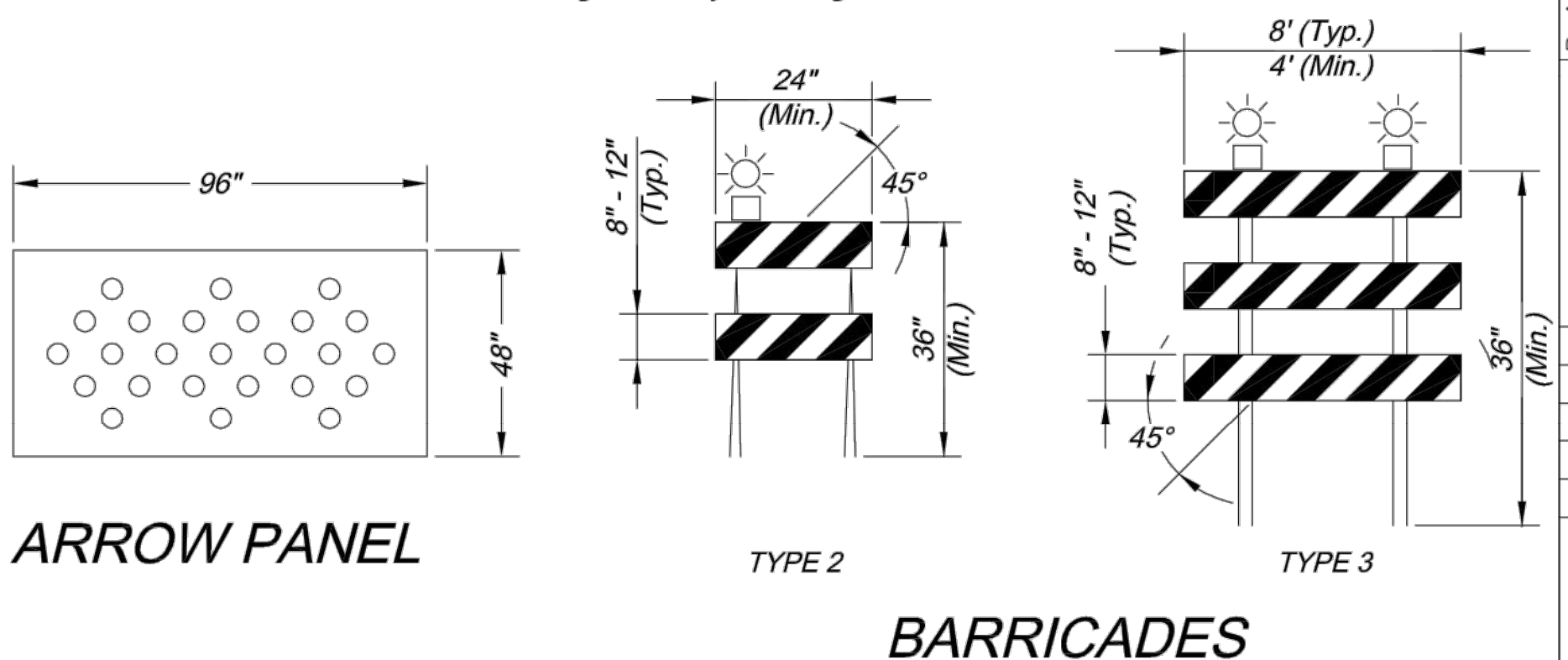
GENERAL NOTES:

- All signs, barricades, channelizers, markings and other traffic control devices shall conform to the latest edition of the Manual on Uniform Traffic Control Devices (MUTCD).
- All traffic control devices shall be standard in size, shape, color, and message, in good condition, and retro-reflectORIZED. All signs shall be securely mounted with height and lateral location as described in the MUTCD.
- Warning lights shall be used on barricades in place at night and on warning signs which alert drivers about a change in alignment, traffic control, lane closure, or road closure.
- Flaggers shall be used where indicated on the plans, where construction vehicles interact with normal traffic, or where construction activities impose a restriction on traffic, as directed by the City Traffic Engineer. Where flaggers are used, advance signing shall be erected as shown in the details or as specified in the MUTCD. Flaggers shall meet the requirements in the MUTCD in regard to character, training, attire, and behavior.
- Trim-lines are the City's preferred channelizing device. Cones may not be used at nighttime.
- Traffic control devices not in use or not applicable shall be either covered or removed from the work area.
- The Contractor shall use barricades, street plates, or fencing as needed to effectively shield pedestrian and vehicular traffic from exposed objects, excavations, and construction activities.
- Access shall be maintained to all driveways and side streets unless noted otherwise on the plans.
- No street shall be closed without the approval of the City Traffic Engineer. The Contractor shall notify the City Traffic Engineer at least 7 days in advance of any street closure. If a detour route around the closure is to be provided, all detour signing shall be as shown on a plan approved by the City Traffic Engineer.
- Construction vehicles parked along streets shall be located within the work area (traffic control) or where otherwise normally permitted. Construction materials, including traffic control and vehicles shall not restrict sight distance for vehicles exiting at streets or drives.
- Construction materials shall be kept off of sidewalks, consolidated in one location within City right-of-way, and removed daily unless otherwise approved by the Inspector. Dirt, mud, and other construction debris on streets and sidewalks shall be removed immediately.
- The Contractor shall not perform any work that will restrict vehicular traffic in any way between the hours of 7:00 a.m. and 9:00 a.m. or 4:00 p.m. and 6:00 p.m. Monday through Friday unless otherwise indicated in the specifications.
- All travel lanes should be at least 11 feet wide unless otherwise authorized by the City Traffic Engineer. A "Narrow Lanes" sign shall be installed in advance of a lane width reduction to less than 11 feet.
- All edge drop-offs of more than 2 inches and less than 4 inches should be protected by a wedge or barrier and all edge drop-offs greater than 4 inches shall have edge protection (see Traffic Control Specifications for edge treatment requirements).
- The "Workers" symbolic sign (MUTCD No. W21-1a) may be used instead of the "Road Work Ahead" sign for work with a duration of 12 hours or less. The "End Road Work" sign is not required to be installed after the "Workers" sign.
- No traffic signal shall be altered or modified in any way without a plan approved by the City Traffic Engineer.
- The Contractor shall be responsible for maintaining all traffic control devices on an around-the-clock basis, whether or not work is actively being pursued and any deficiencies noted shall be corrected immediately.
- The traffic control requirements shown on these plans are minimum requirements only and do not attempt to address in depth the variety of situations that may occur once construction has started. In no way do the requirements shown on these plans relieve the Contractor of his responsibility for selecting the proper traffic control devices and implementation procedures that will assure the safety of drivers, pedestrians, and workers at all times.
- Should the contractor fail to enforce the traffic control plan or fail to clean, replace or otherwise maintain the traffic control devices when directed to do so by the City Traffic Engineer or representative, the City may take one or more of the following actions:
 - Employ another agency to correct deficiencies in traffic control devices and deduct the cost from the Contractor's pay estimate.
 - Stop the work until deficiencies are corrected.
 - Suspend all pay estimates until deficiencies are corrected, or
 - Place the Contractor in default.



CHANNELIZERS

NOTE: White Bands On Barricades and Channelizers Shall Be Made From High Intensity Sheeting Material.



BARRICADES

RECORD DRAWING

"NOT AS BUILT"

CITY OF LEE'S SUMMIT
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
220 SE GREEN STREET
LEE'S SUMMIT, MISSOURI 64063
PHONE: (816) 969-1800 FAX: (816) 969-1809



Project: O'REILLY DEVELOPMENT SENIOR LIVING

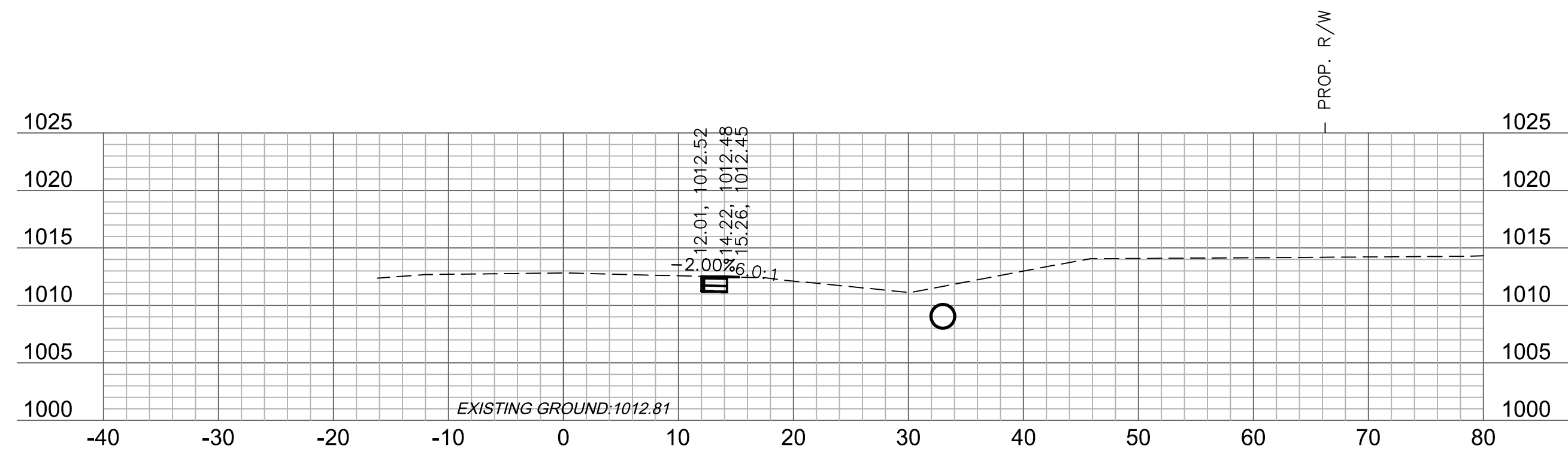
TRAFFIC CONTROL DETAILS

Sheet Name: STANDARD DRAWING TC-1

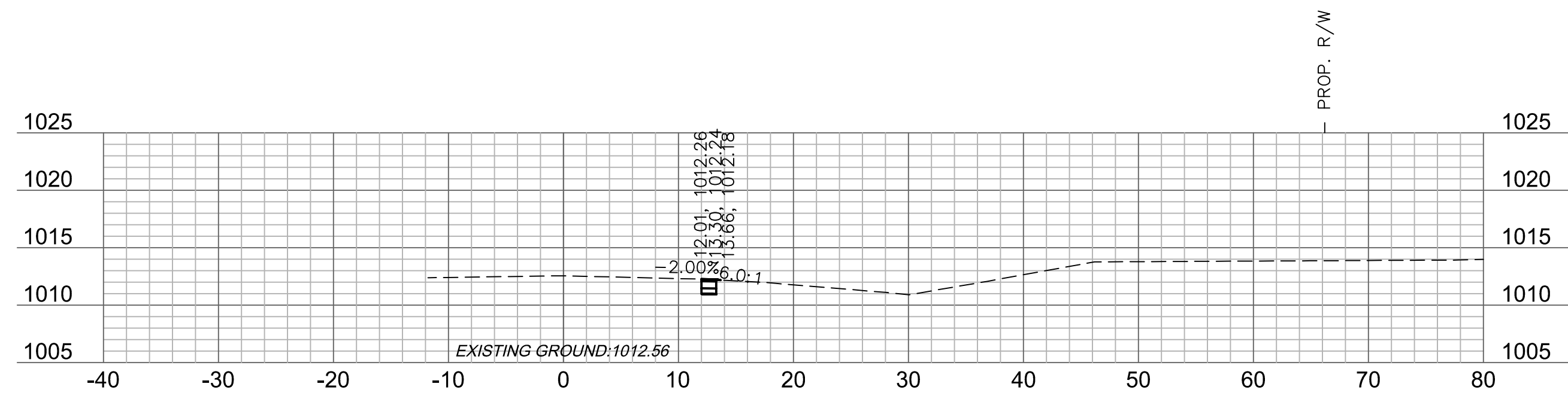
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Checked By: MP
Date: 12-10-2008
Project No.: X

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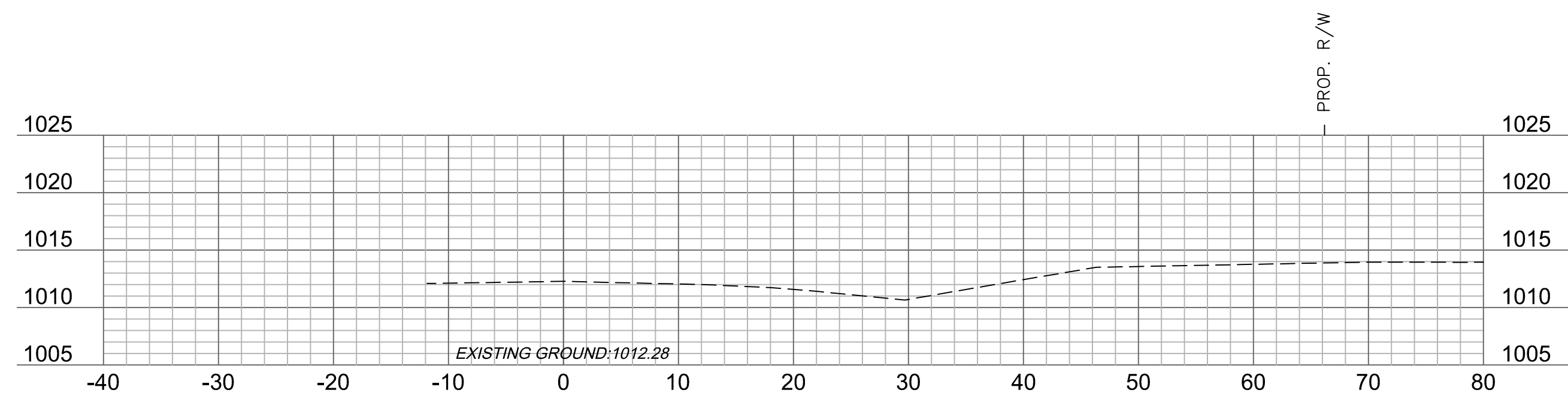
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 DATE: Jul 25, 2019 9:37am USER: ascavedra



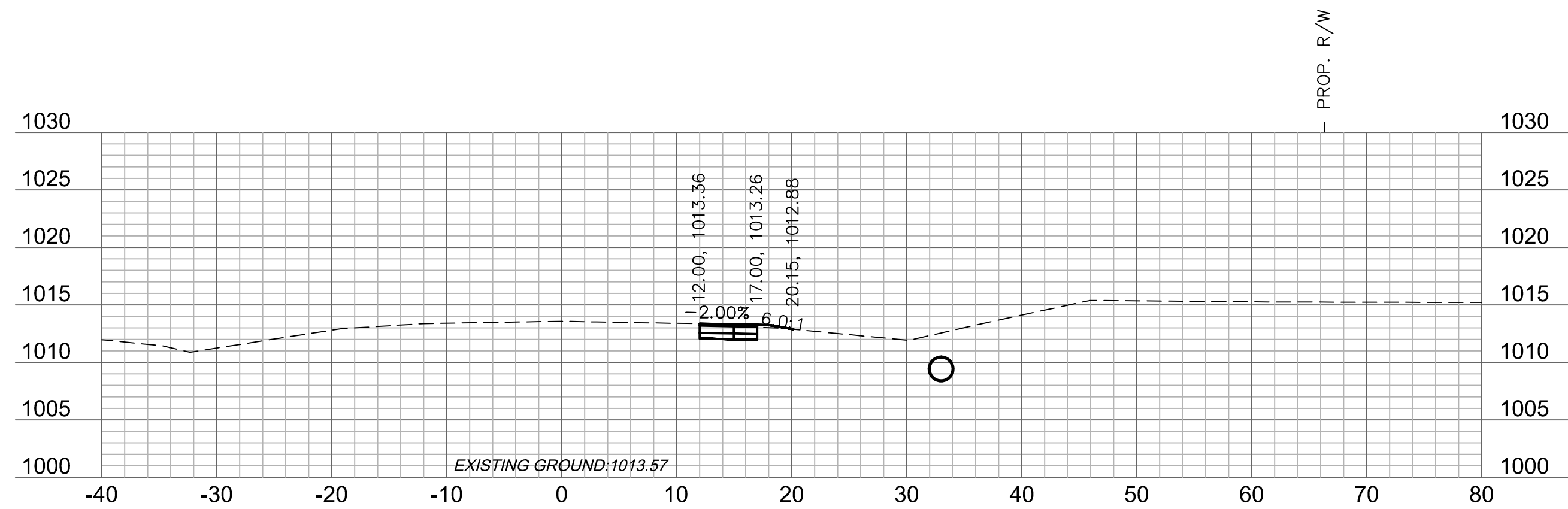
12+75



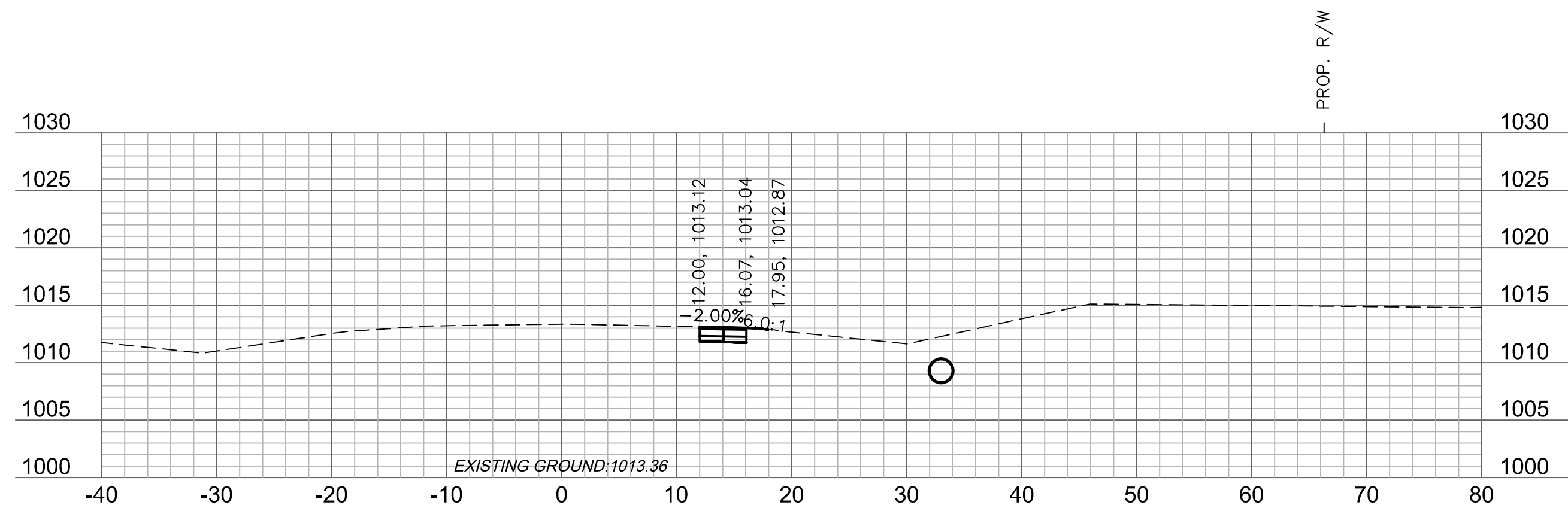
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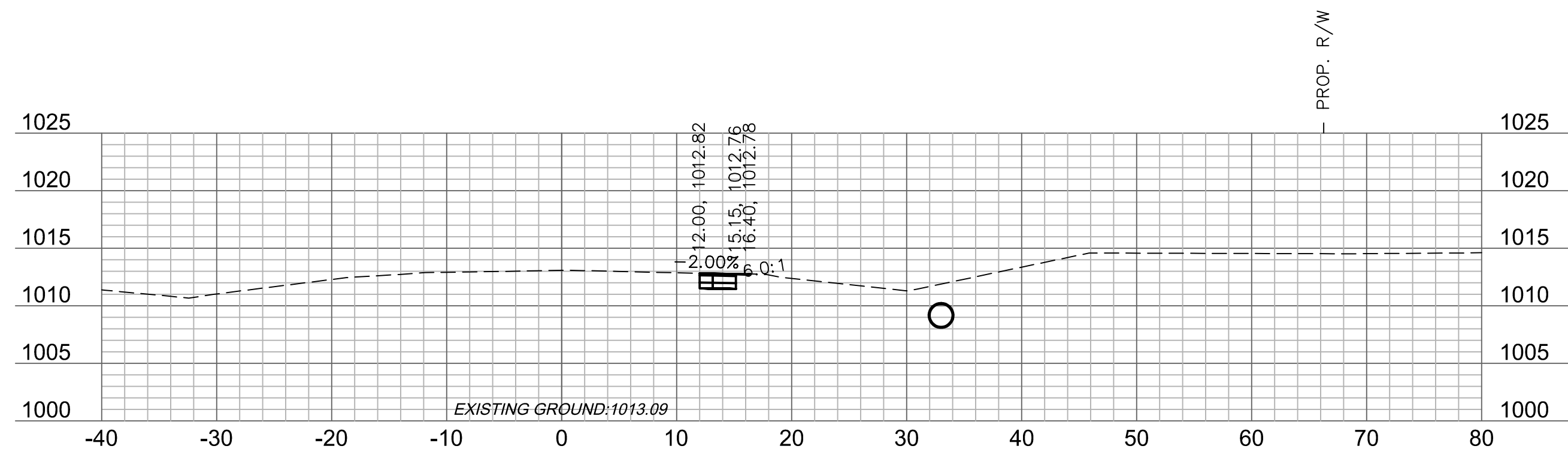
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13+50



13+25



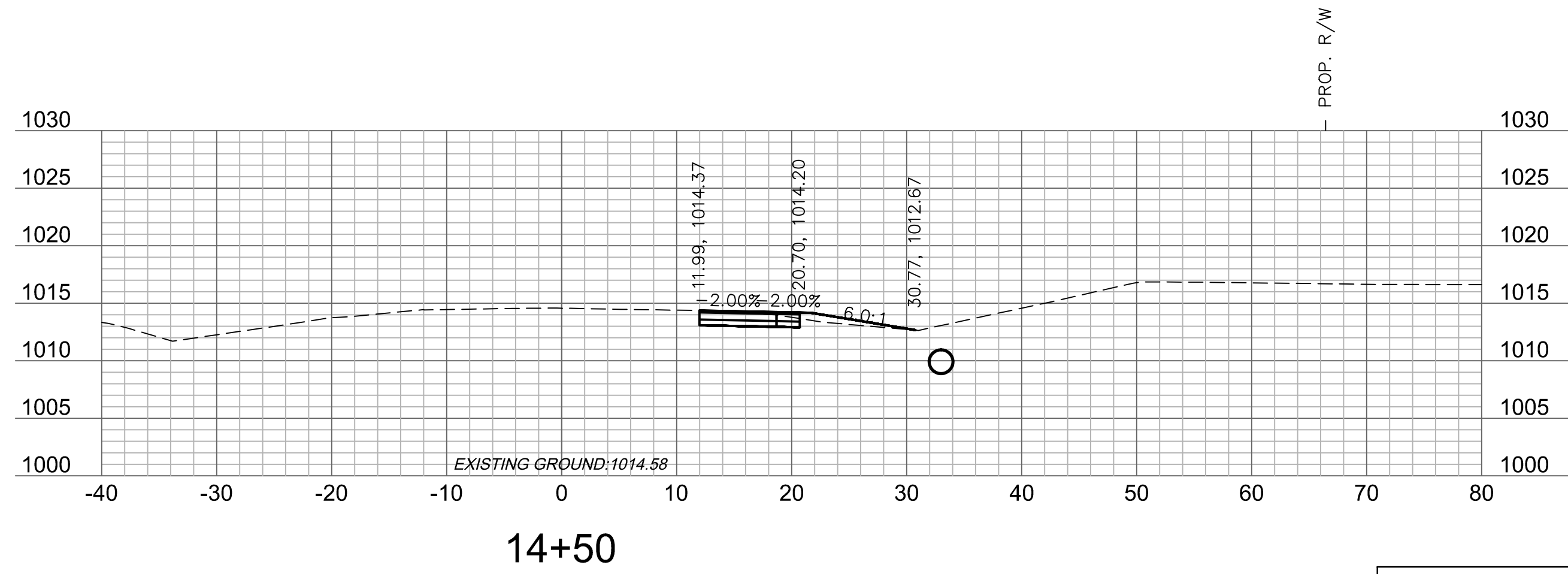
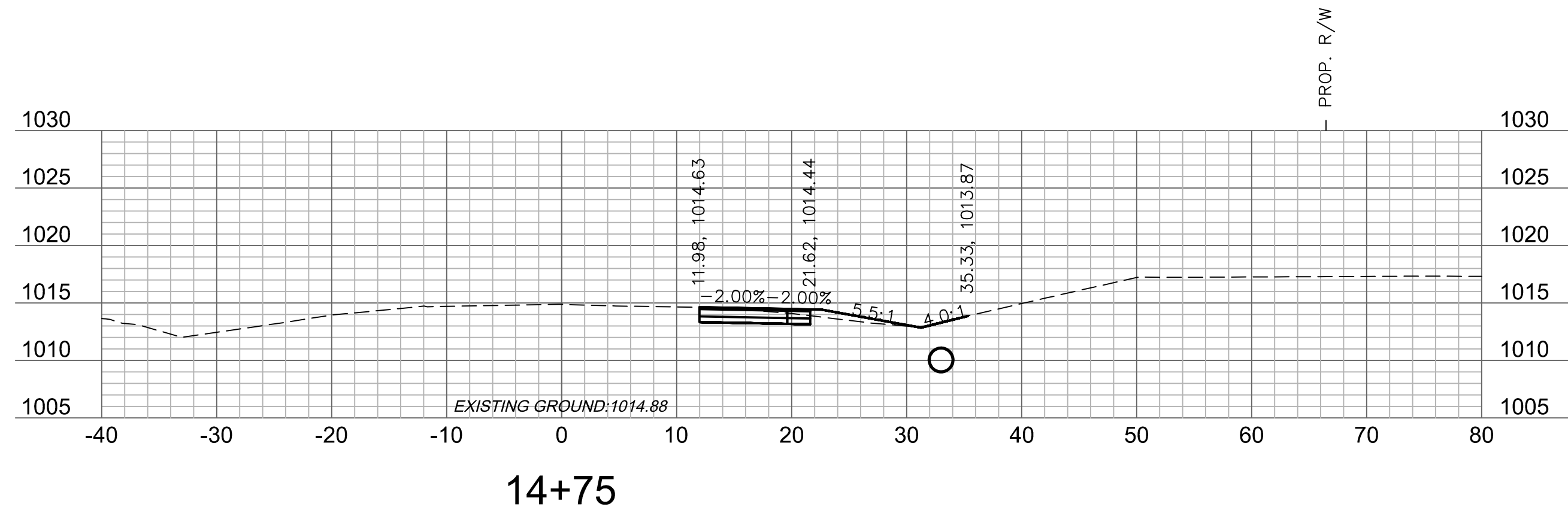
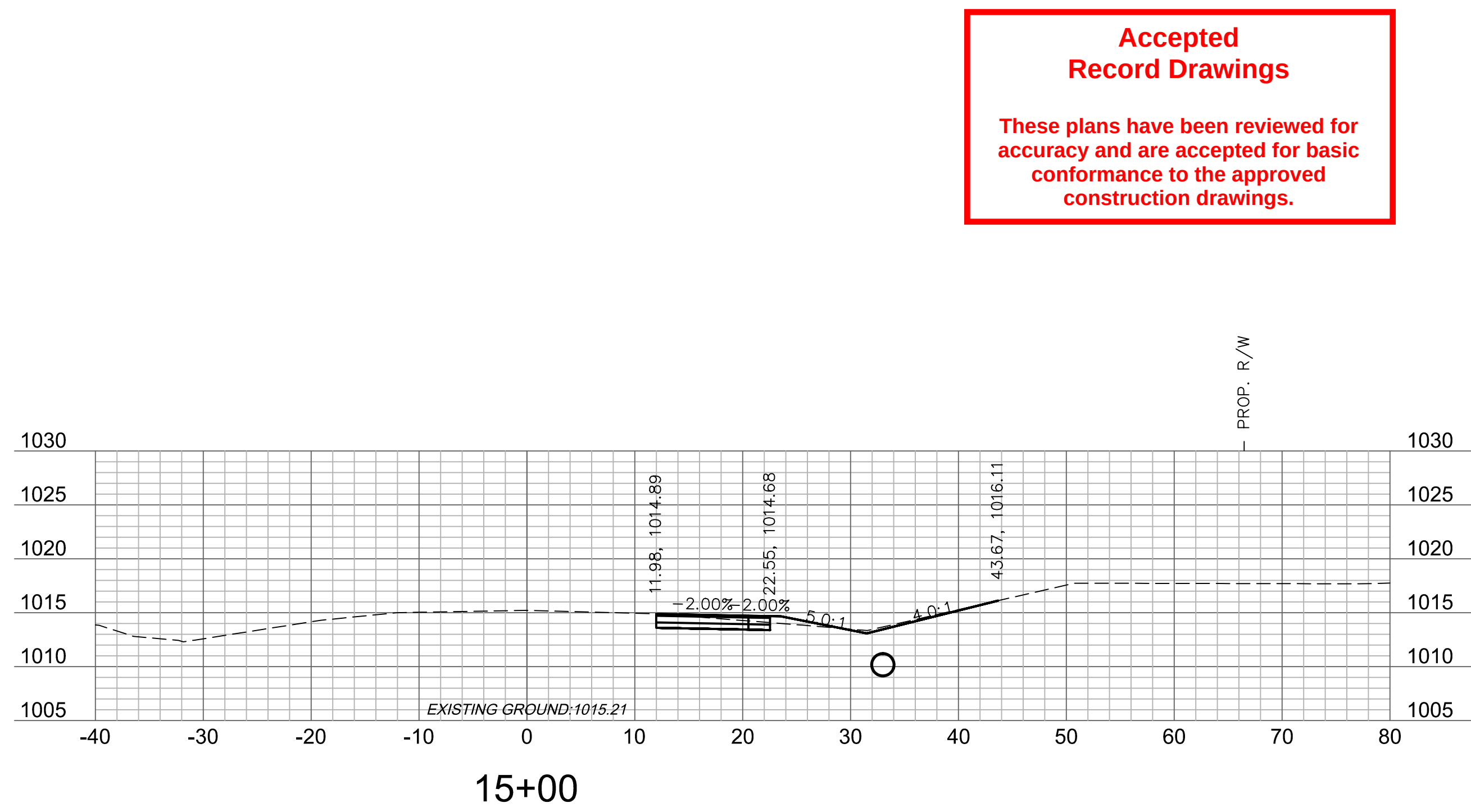
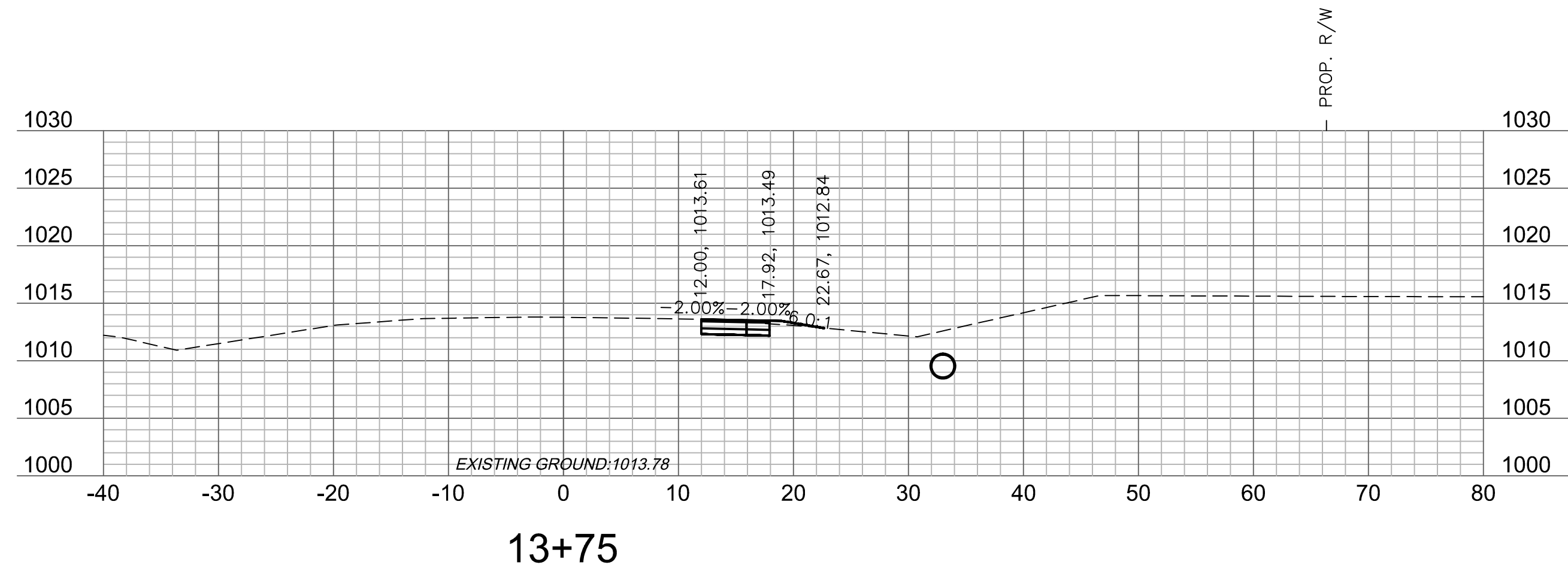
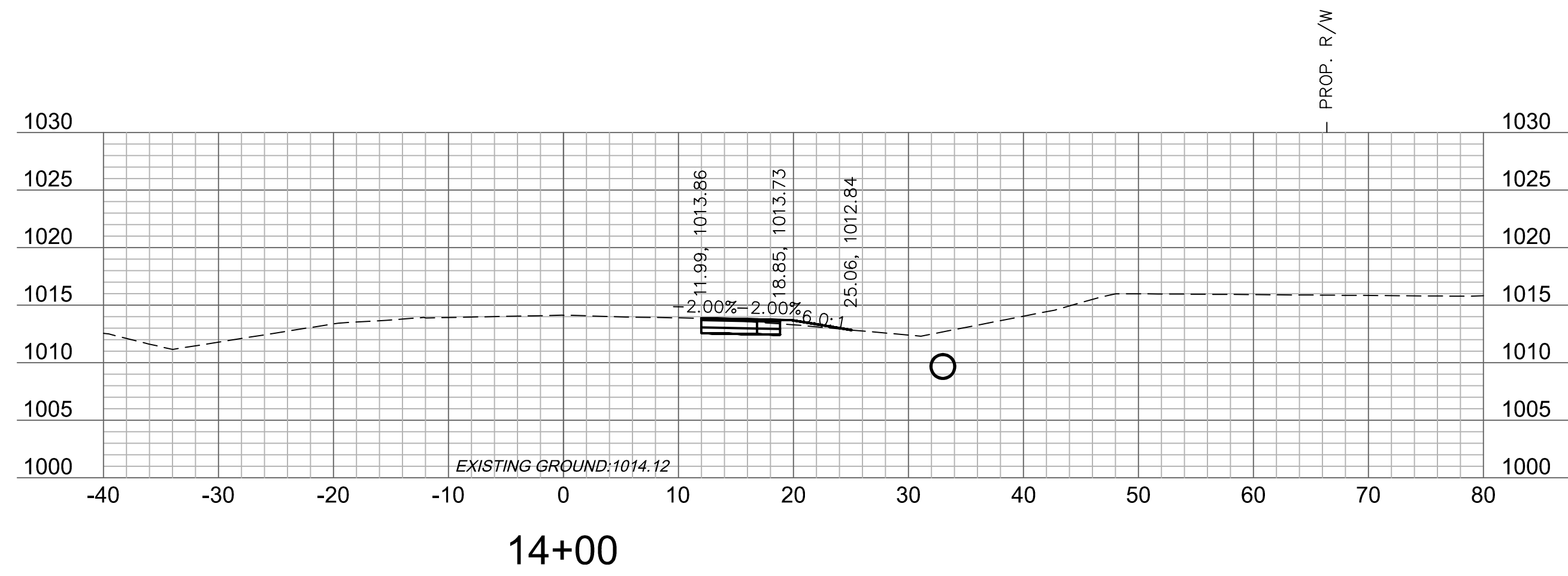
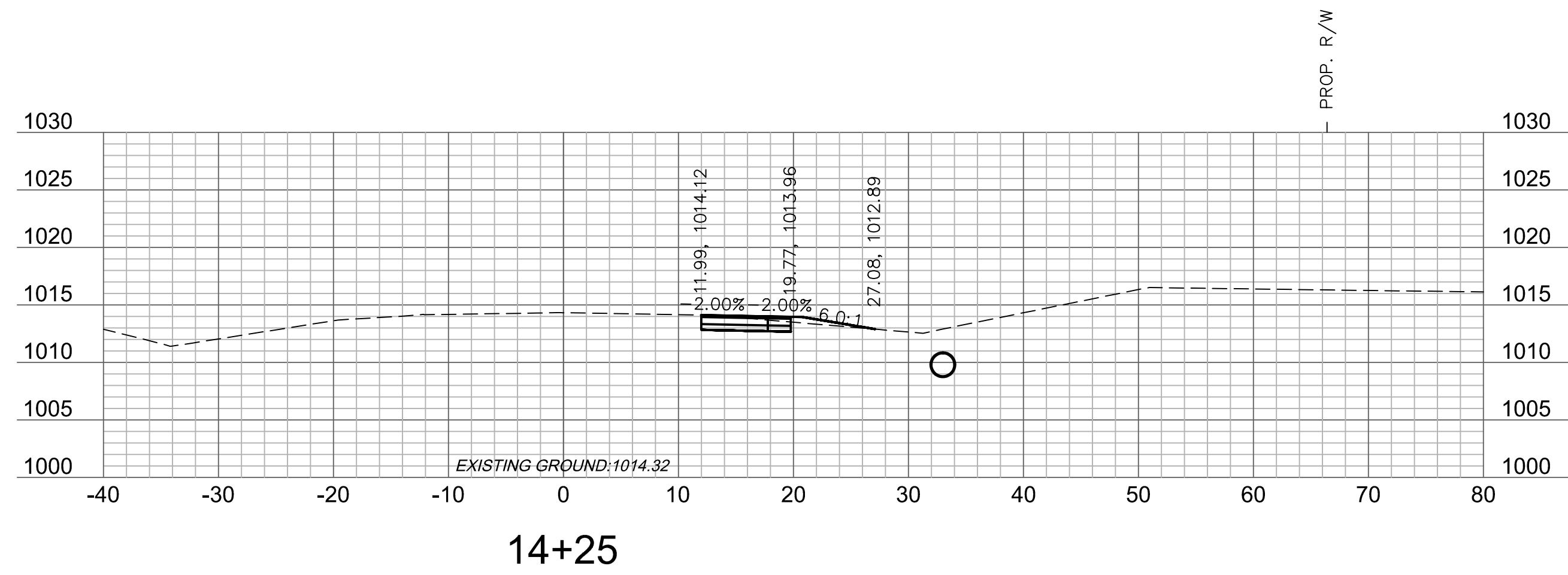
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**Accepted
Record Drawings**

These plans have been reviewed for accuracy and are accepted for basic conformance to the approved construction drawings.

GRADING (BY OTHERS)

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USER: asoaavedra



**Accepted
Record Drawings**

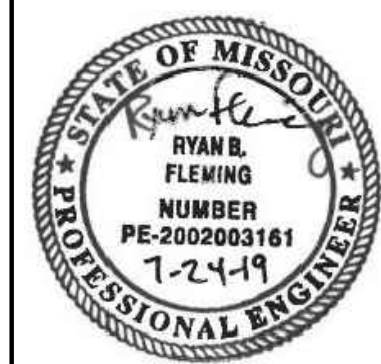
These plans have been reviewed for accuracy and are accepted for basic conformance to the approved construction drawings.

	GRADING (BY OTHERS)
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olsson

Olsson Engineering - MO State Certificate of Authority #001592
7301 West 133rd Street, Suite 200 TEL 913.381.1170
Overland Park, KS 66213-4750 FAX 913.381.1174 www.olsson.com

RECORD DRAWING



"NOT AS BUILT"

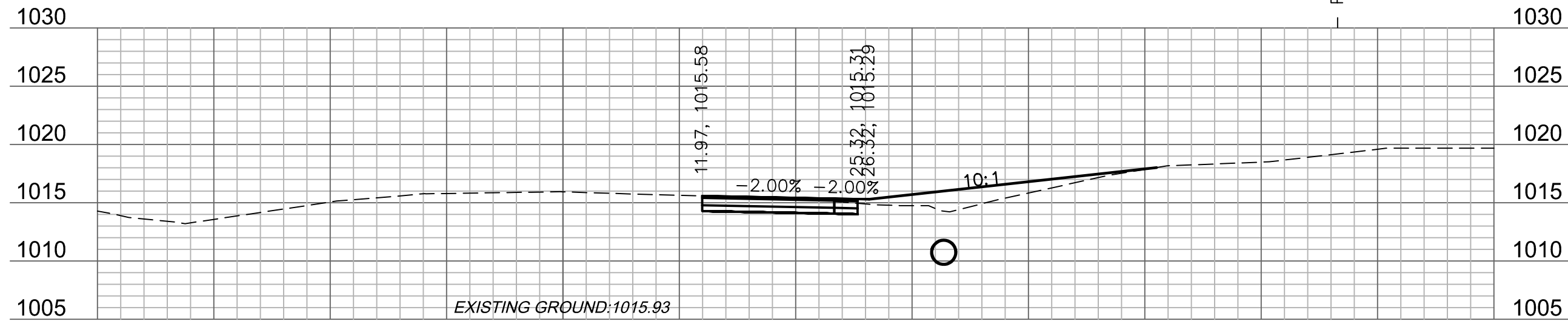
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OLDHAM PARKWAY CROSS SECTIONS	
OREILLY DEVELOPMENT SENIOR LIVING FACILITY OLDHAM PARKWAY & PRINCETON DRIVE IMPROVEMENTS	
LEE'S SUMMIT, MISSOURI	2019

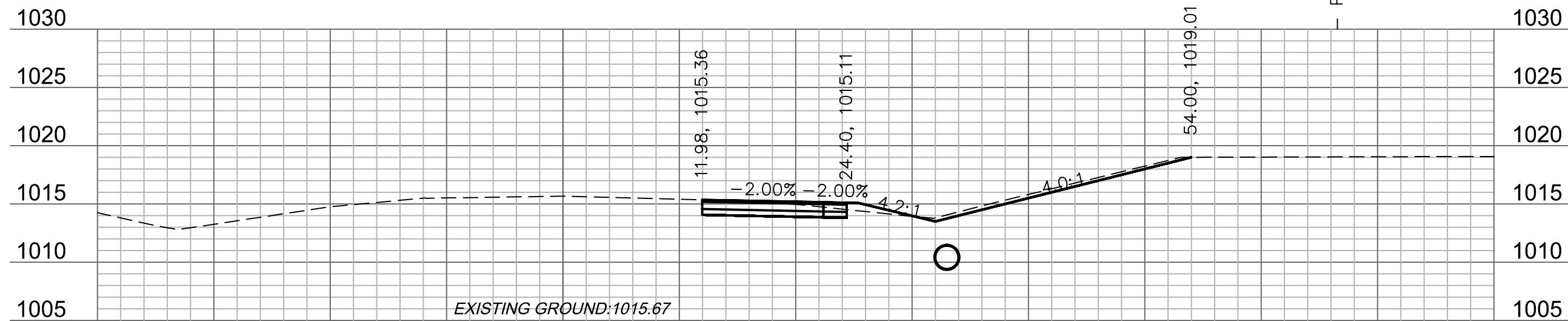
C.O.A. NO.: 001592
DRAWN BY: AS
CHECKED BY: JKL
APPROVED BY: RBF
QA/QC BY: JKL/RBF
PROJECT NO.: 018-1450
DWG NO.: T_PCORR 81450
DATE: 07.19.19

SHEET
T36 OF 70

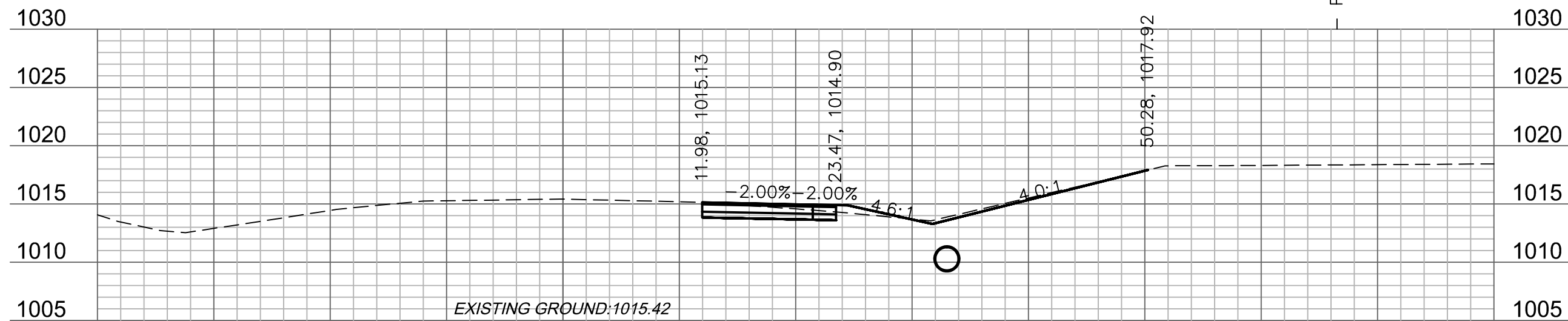
2018
Jul 25



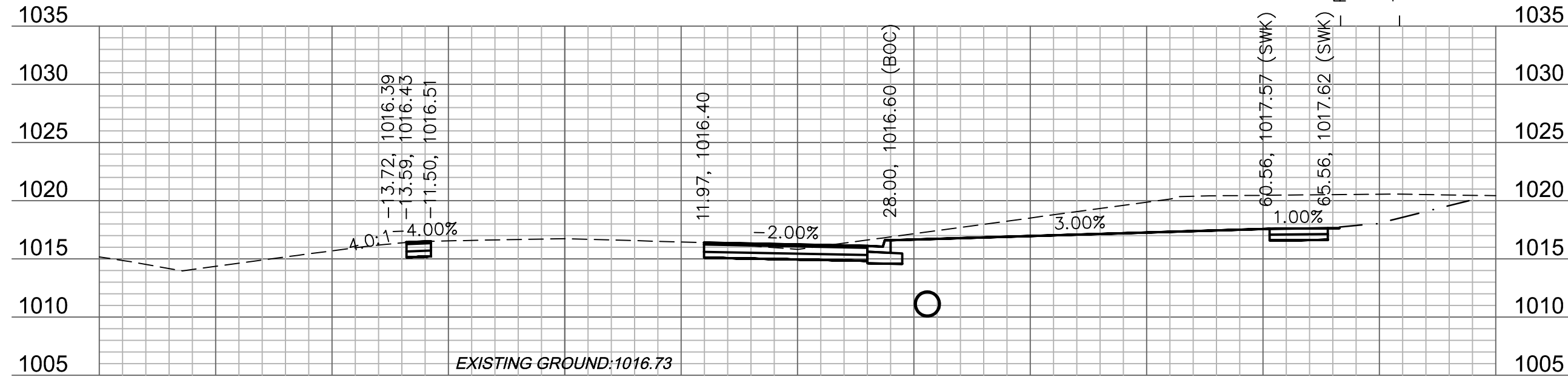
15+75



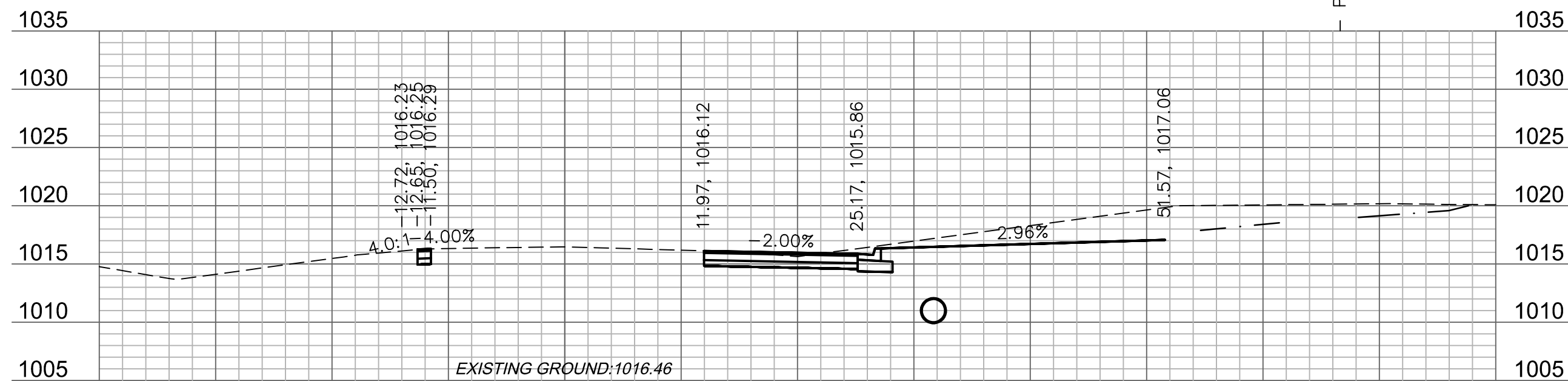
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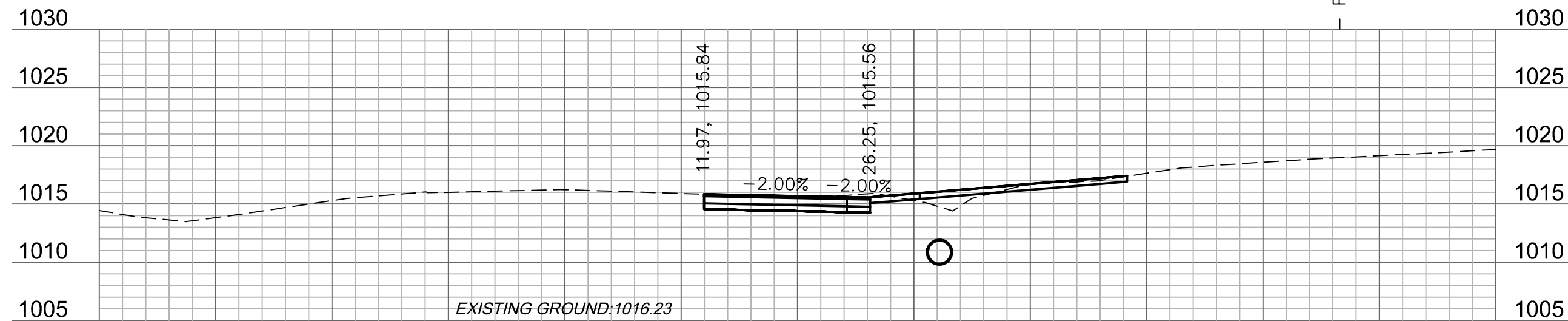
15+25



16+50



16+25



16+00

**Accepted
Record Drawings**

These plans have been reviewed for accuracy and are accepted for basic conformance to the approved construction drawings.

Olsson

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7301 West 133rd Street, Suite 200 TEL 913.381.1170
Overland Park, KS 66212 4750 FAX 913.291.1174
www.olsson.com

RECORD DRAWING



"NOT AS BUILT"

[illegible]

OLDHAM PARKWAY CROSS SECTIONS

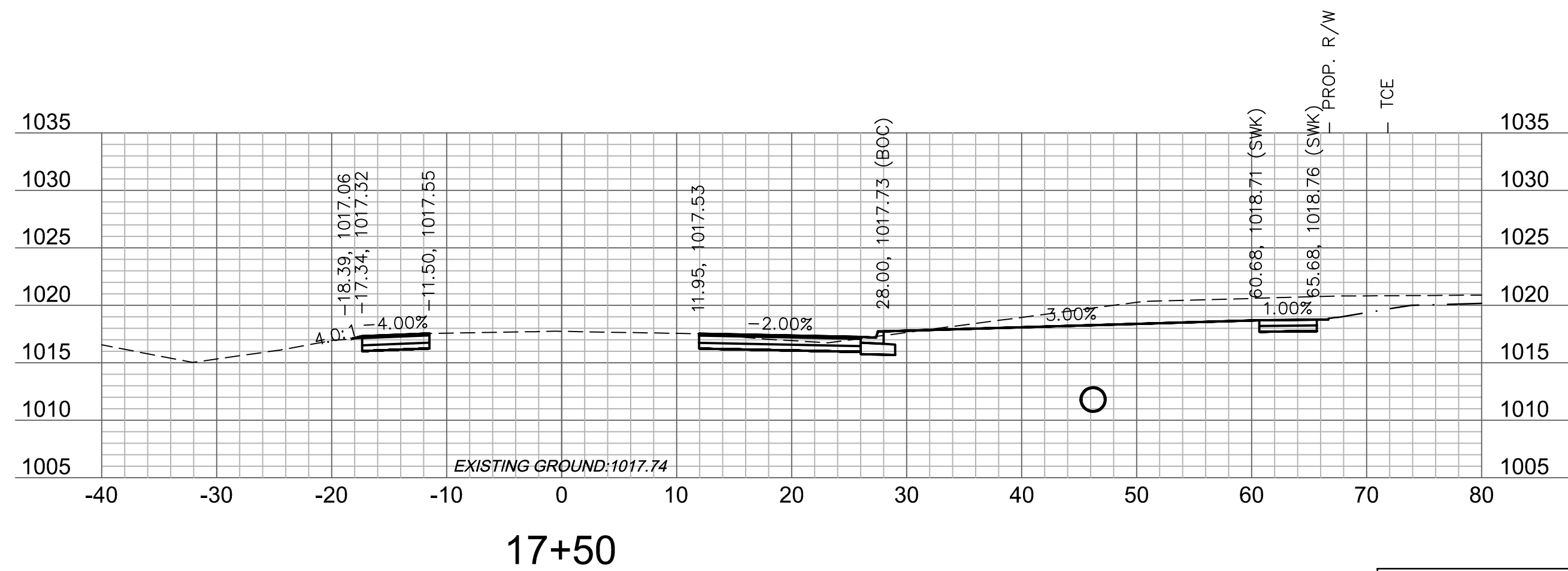
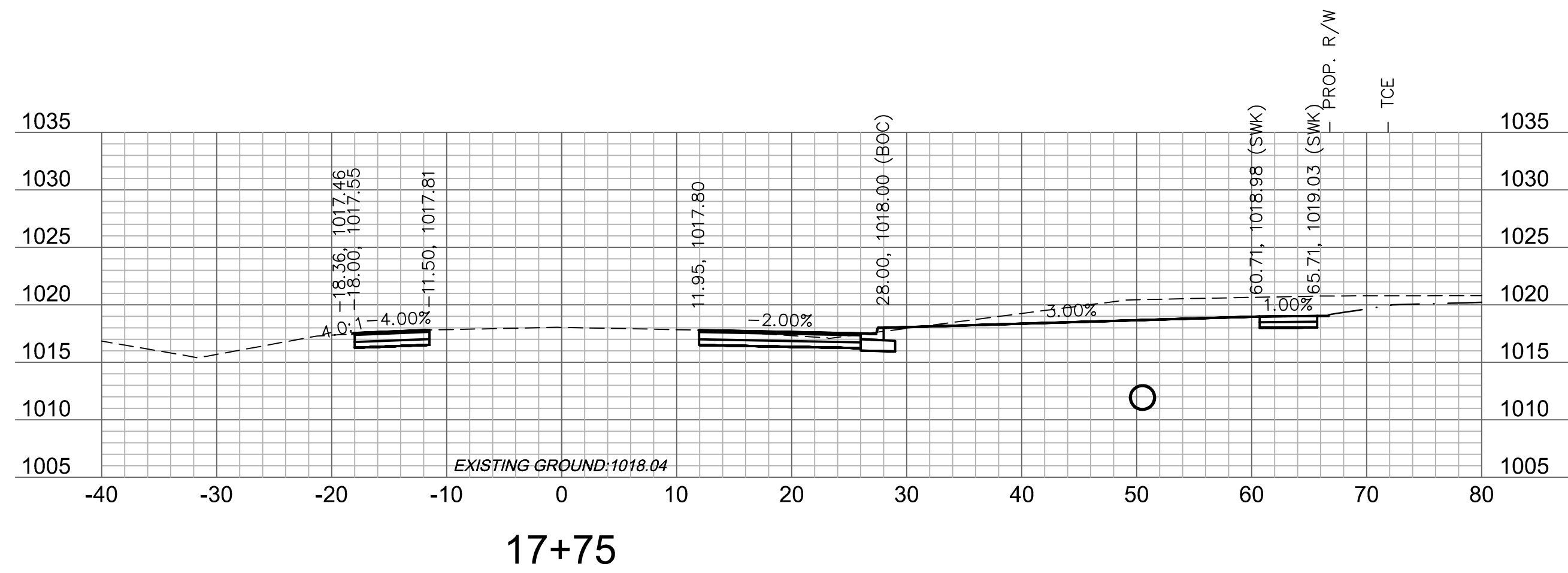
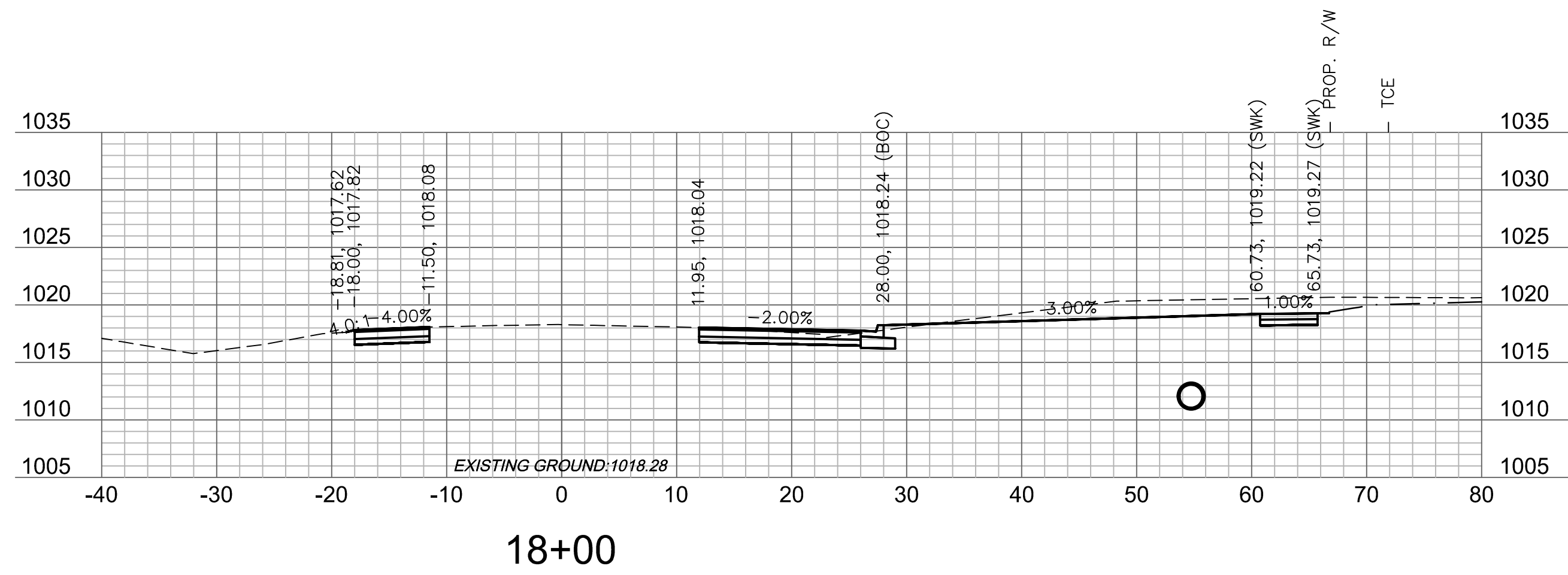
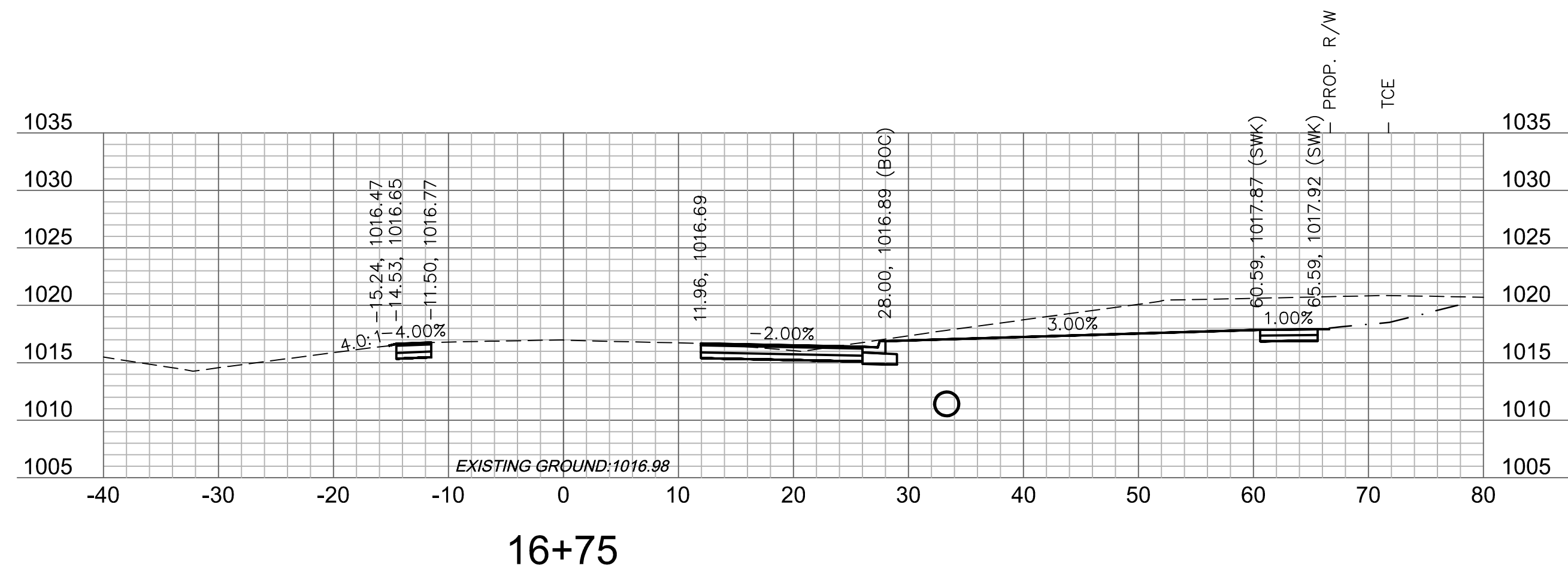
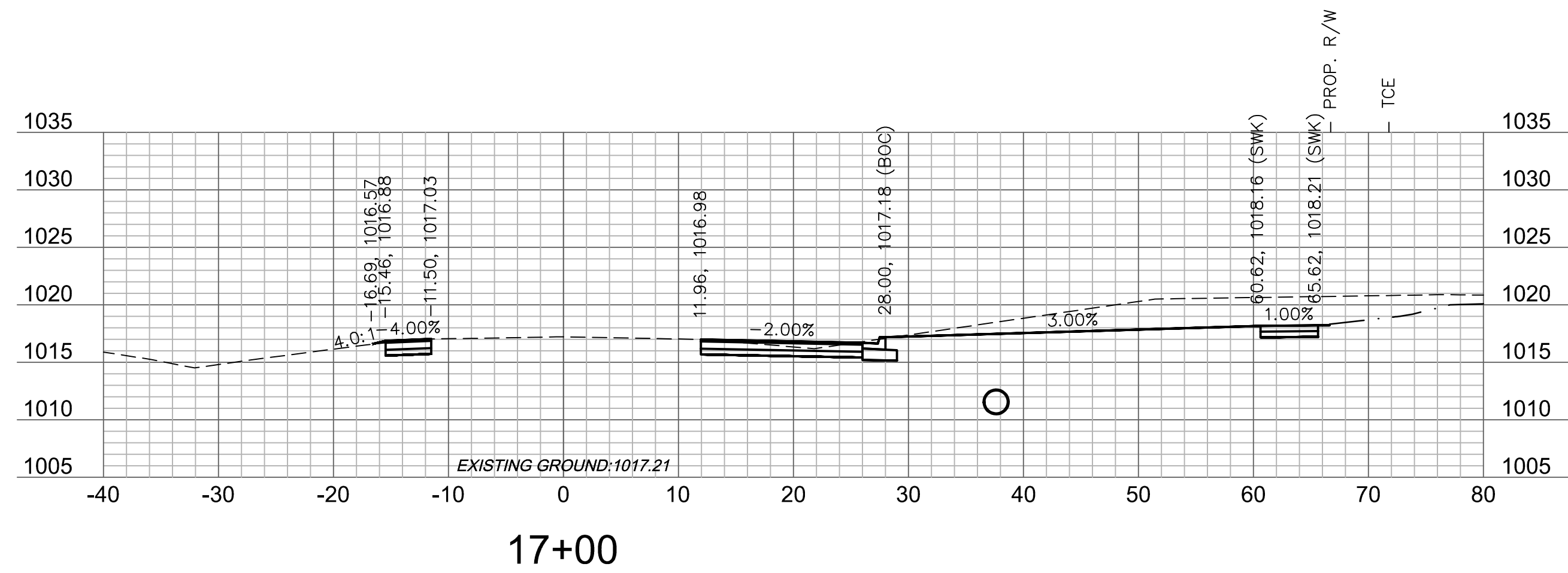
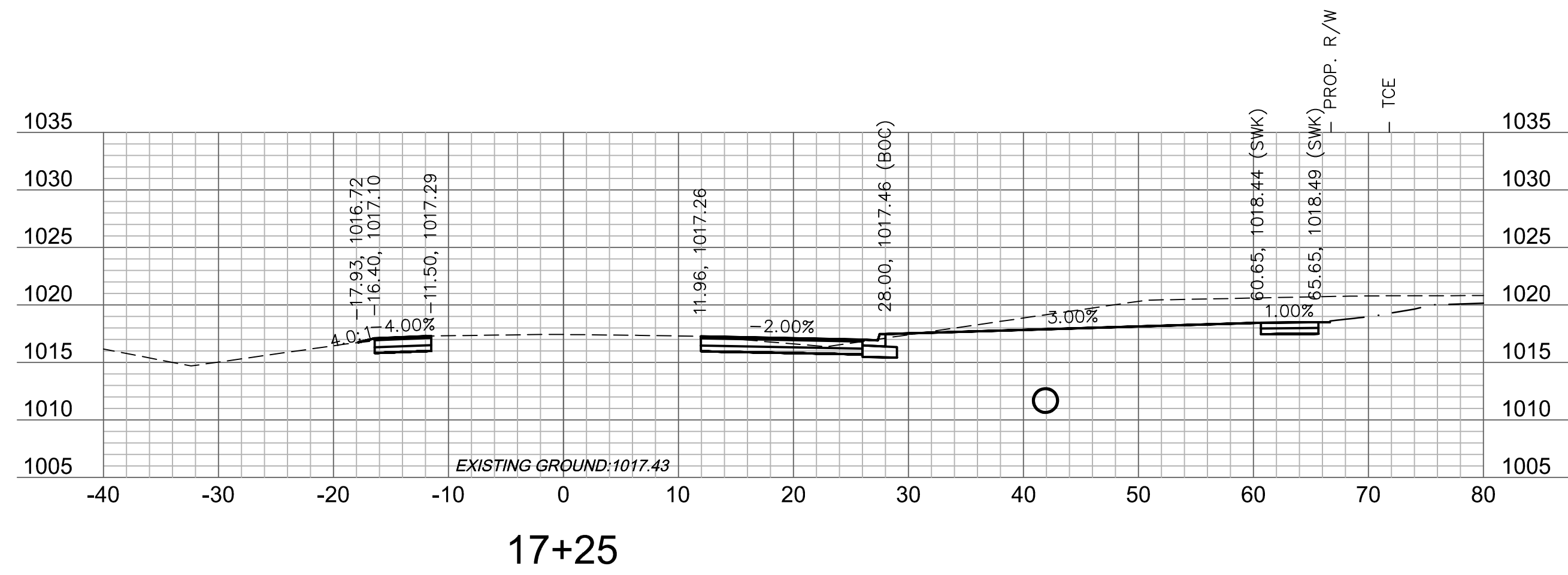
OREILLY DEVELOPMENT SENIOR LIVING FACILITY
OLDHAM PARKWAY & PRINCETON DRIVE IMPROVEMENTS

2019

C.O.A. NO.: 001592
DRAWN BY: AS
CHECKED BY: JKL
APPROVED BY: RBF
QA/QC BY: JKL/RBF
PROJECT NO.: 018-1450
DWG NO.: T_PCORR_81450
DATE: 07.19.19

SHEET
T37 OF 70

DWG: F:\2018\1001-1500\018-1450\40-Design\AutoCAD\Final Plans\Xref\T_PCORR_81450.dwg
 XREFS: v_xbou_81450 V_TOPO_81450 T_PBASE_81450 C_PBASE_81450 T_PTBULK_81450
 DATE: Jul 25, 2019 9:37am USER: ascavedra



**Accepted
Record Drawings**

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GRADING (BY OTHERS)

olson

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Overland Park, KS 66213-4750 FAX 913.381.1174 www.olsson.com

RECORD DRAWING



"NOT AS BUILT"

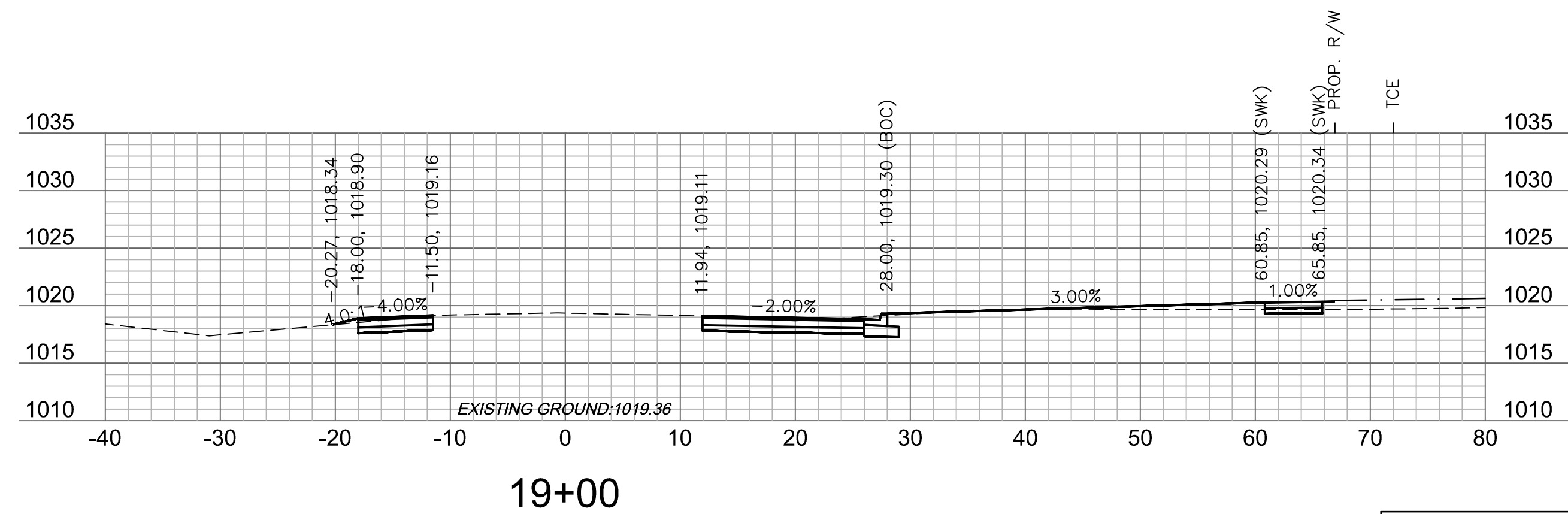
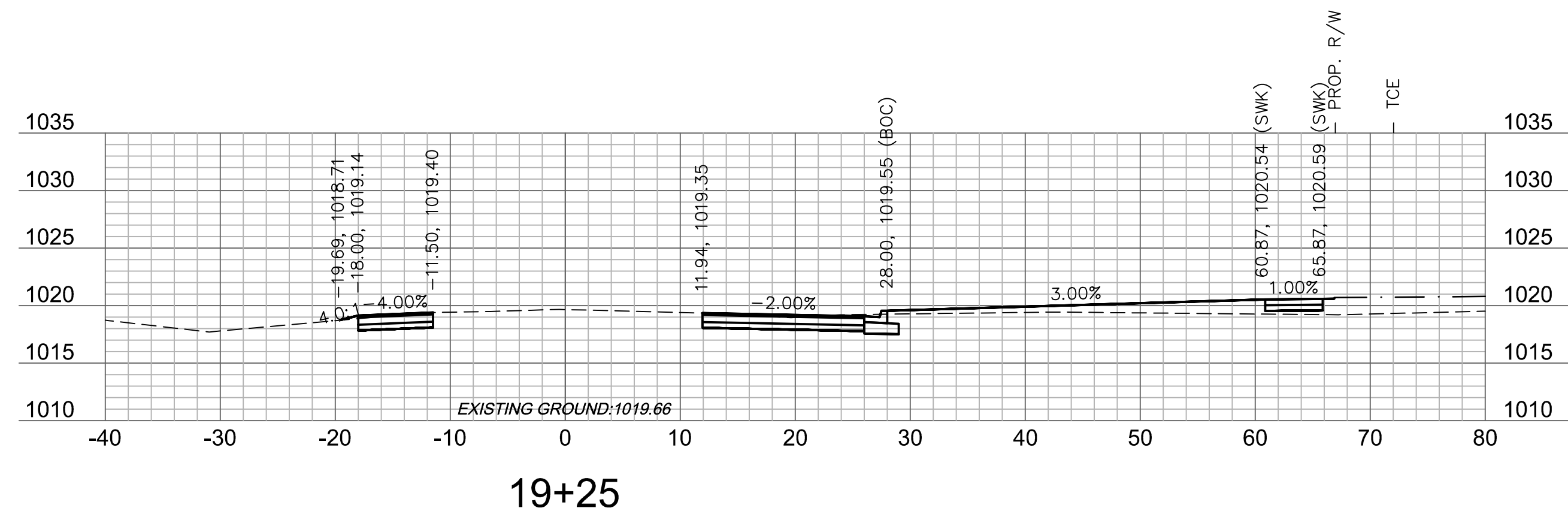
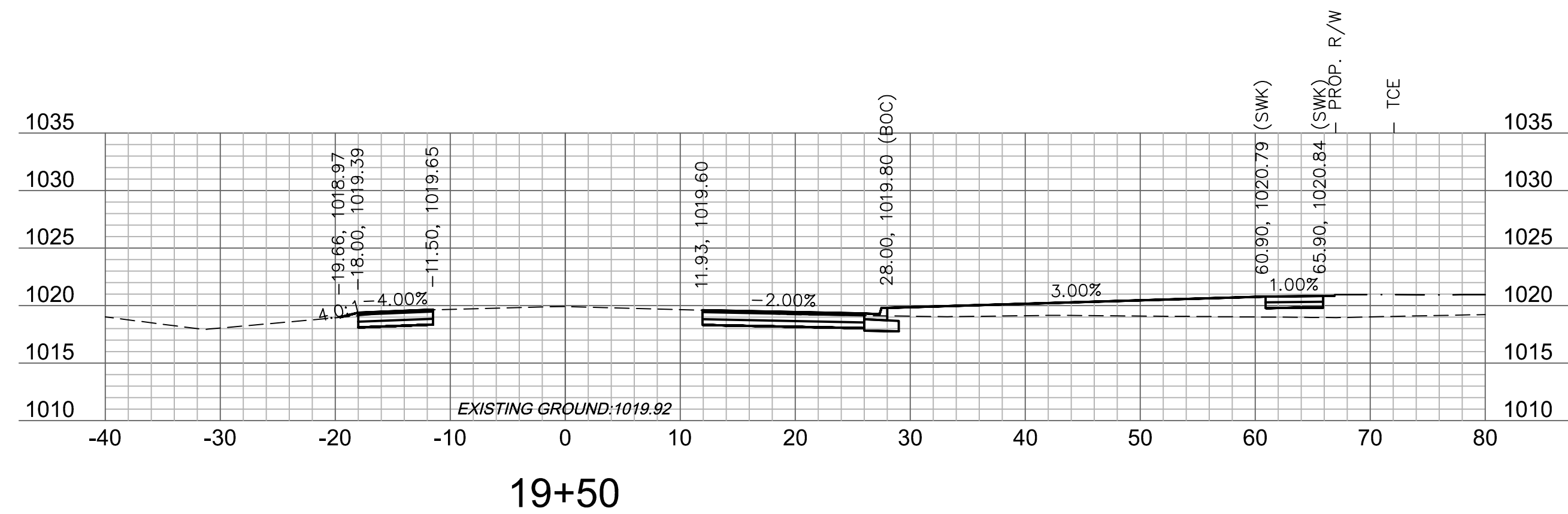
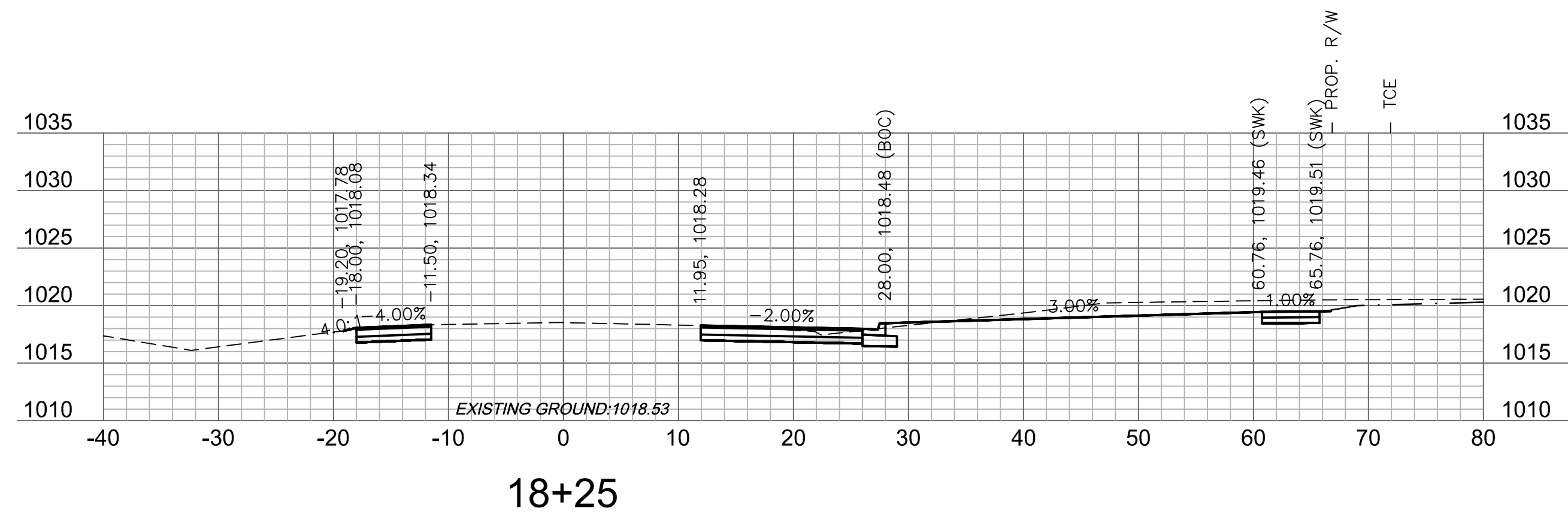
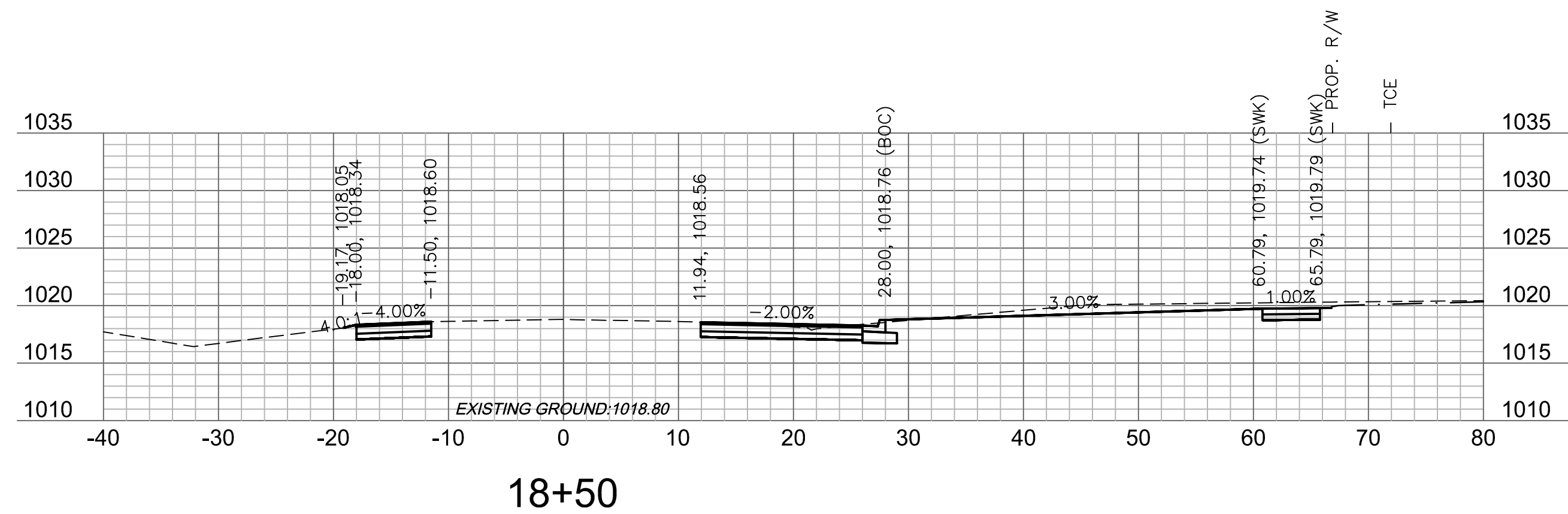
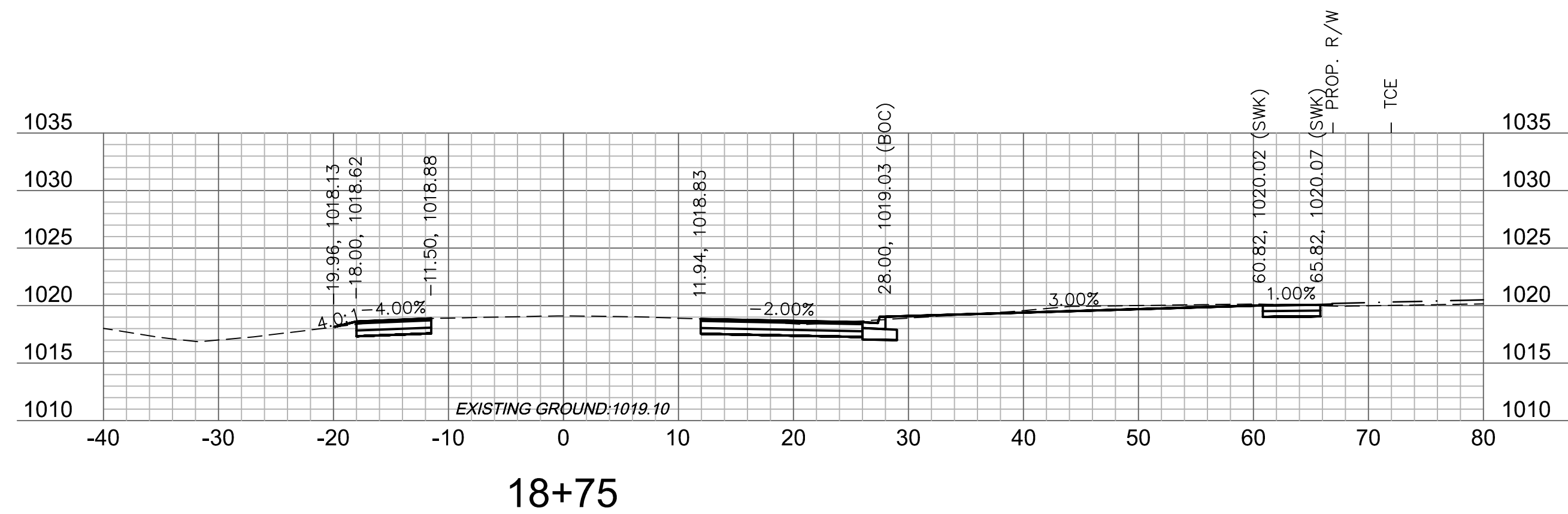
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OLDHAM PARKWAY CROSS SECTIONS	2019
O'REILLY DEVELOPMENT SENIOR LIVING FACILITY OLDHAM PARKWAY & PRINCETON DRIVE IMPROVEMENTS	2019

C.O.A. NO.: 001592
DRAWN BY: AS
CHECKED BY: JKL
APPROVED BY: RBF
QA/QC BY: JKL/RBF
PROJECT NO.: 018-1450
DWG NO.: T_PCORR_81450
DATE: 07.19.19

SHEET
T38 OF 70

DWG: F:\2018\1001-1500\018-1450\40-Design\AutoCAD\Final Plans\Xref\T_PCORR_81450.dwg
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 DATE: Jul 25, 2019 9:37am USER: ascavedra



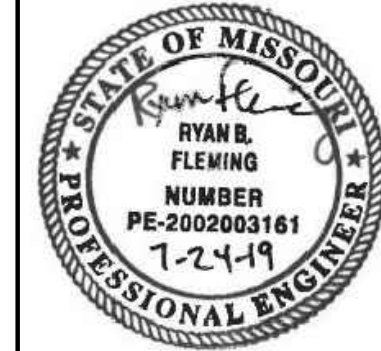
**Accepted
Record Drawings**

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Olsson

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Overland Park, KS 66213-4750 FAX 913.381.1174 www.olsson.com

RECORD DRAWING



"NOT AS BUILT"

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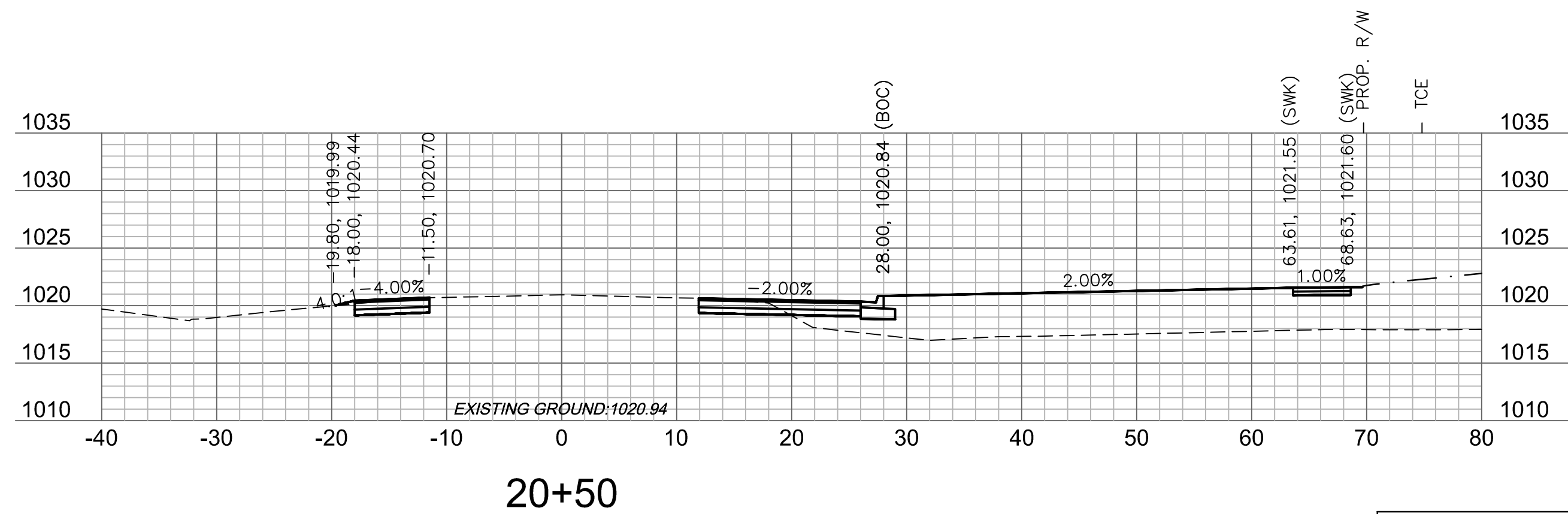
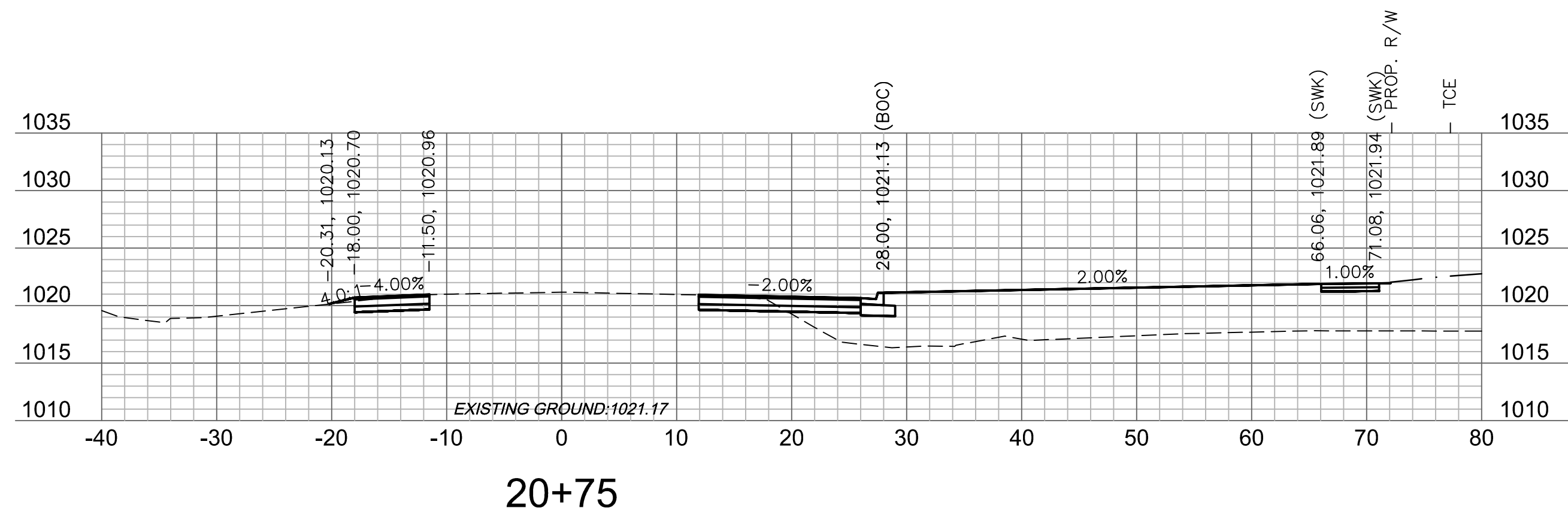
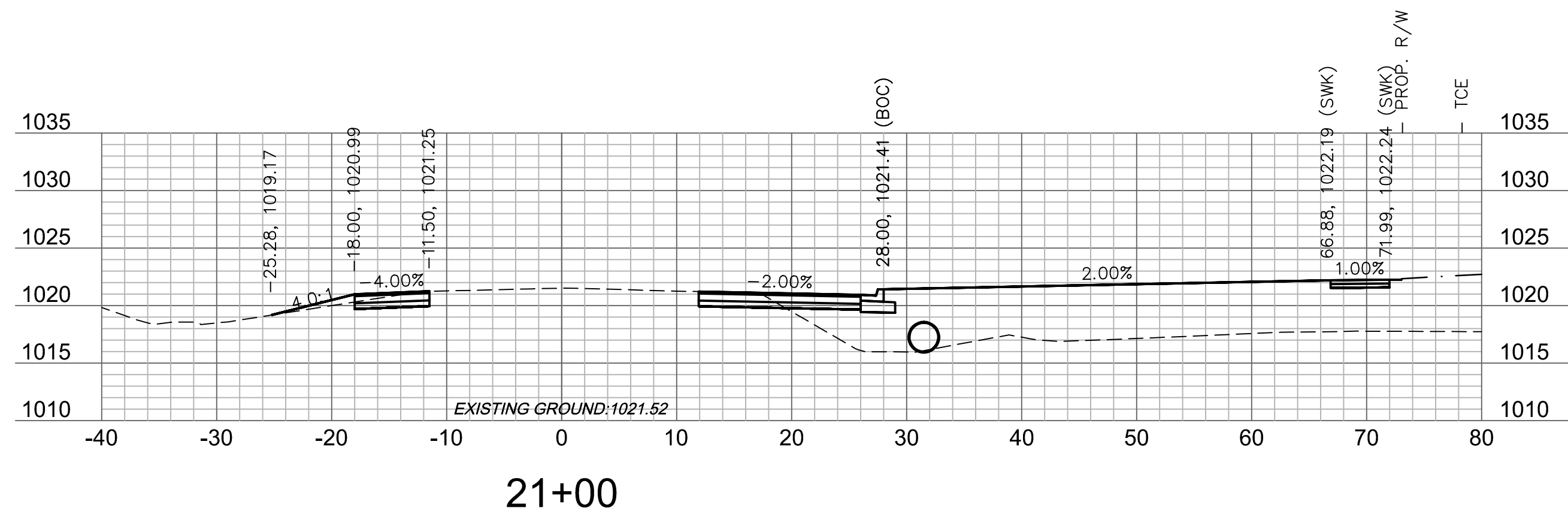
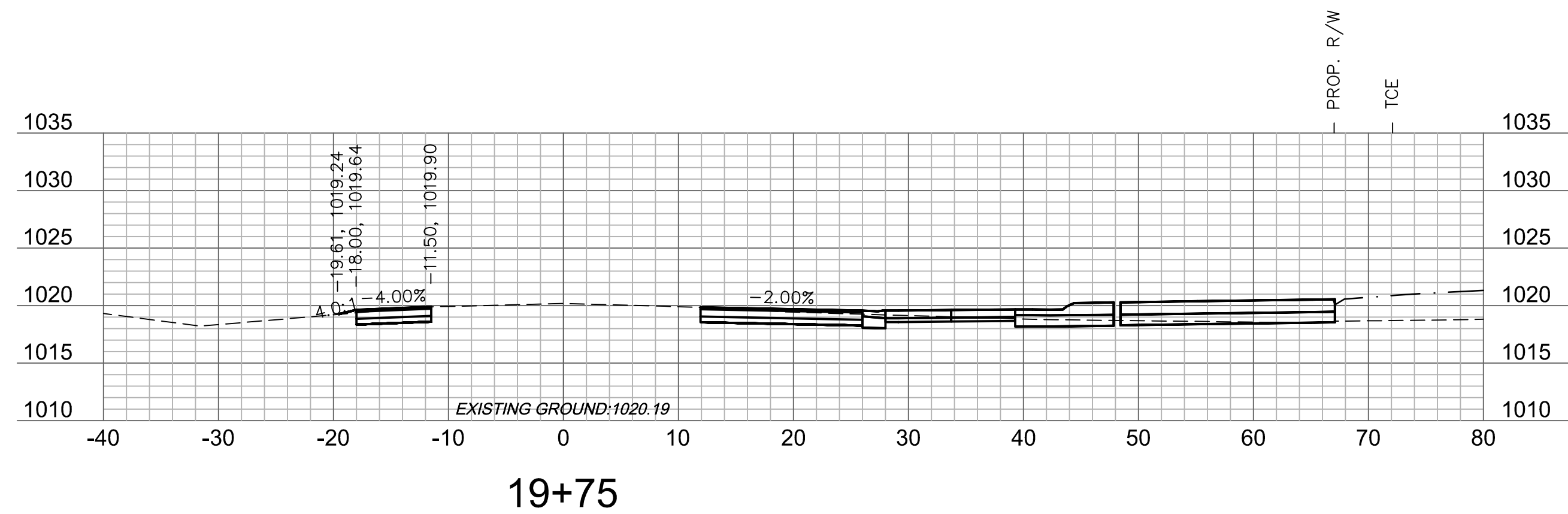
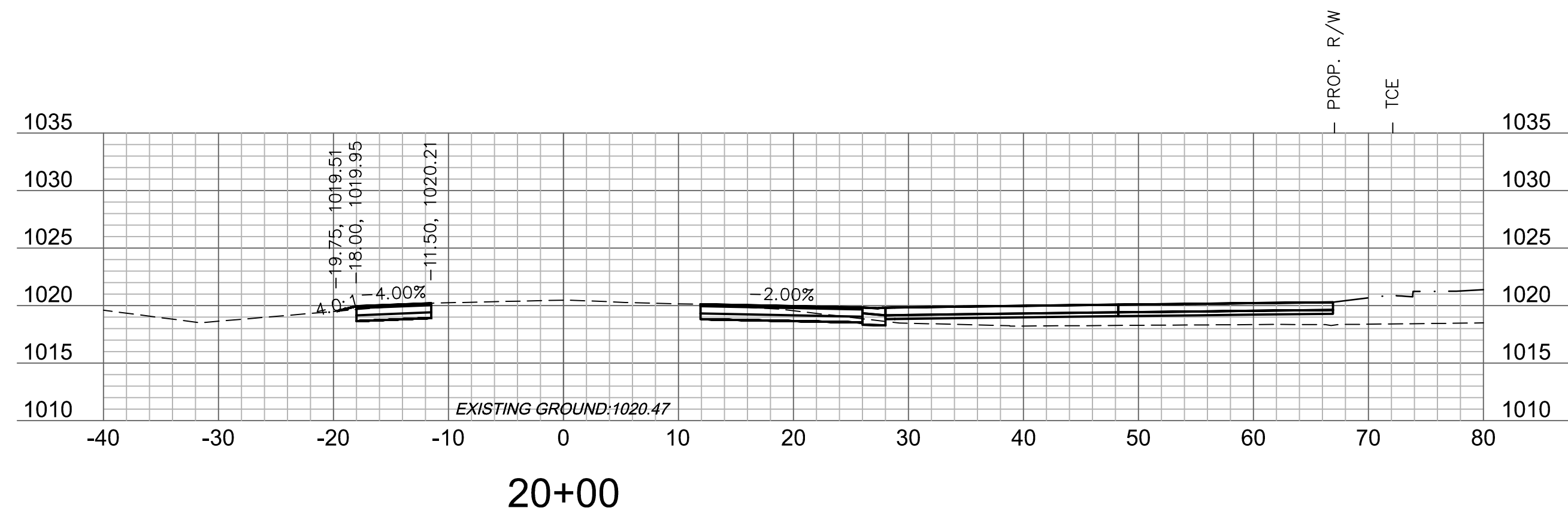
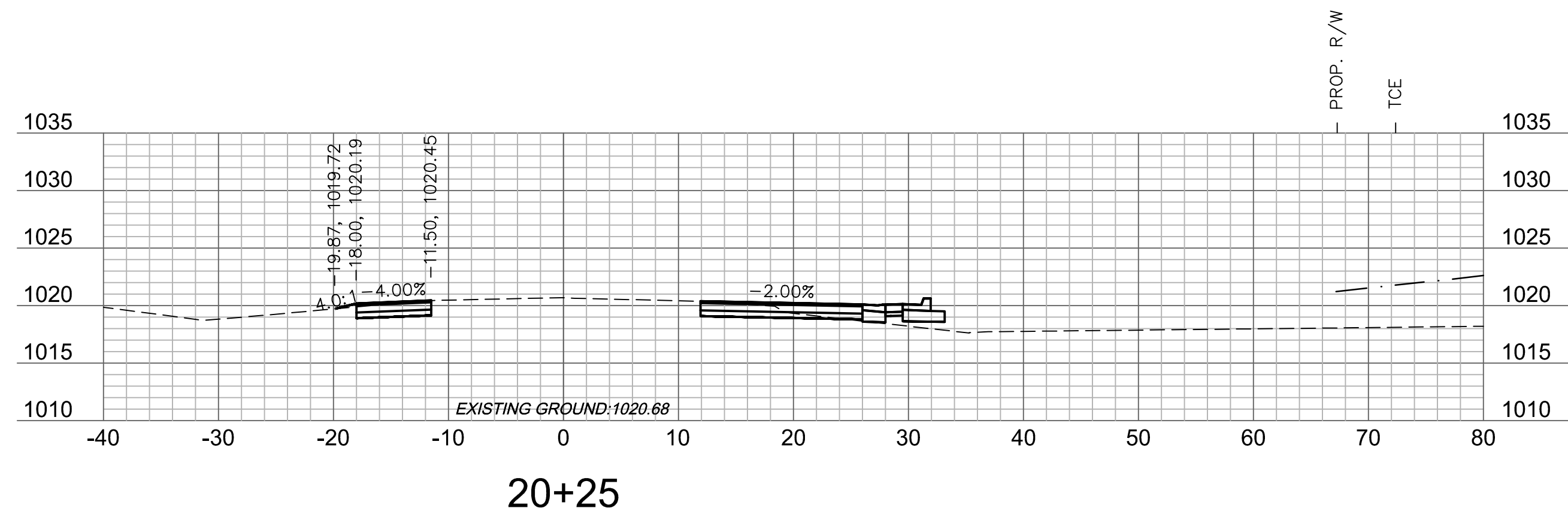
OLDHAM PARKWAY CROSS SECTIONS	2019
OREILLY DEVELOPMENT SENIOR LIVING FACILITY OLDHAM PARKWAY & PRINCETON DRIVE IMPROVEMENTS	LEE'S SUMMIT, MISSOURI

C.O.A. NO.: 001592
DRAWN BY: AS
CHECKED BY: JKL
APPROVED BY: RBF
QA/QC BY: JKL/RBF
PROJECT NO.: 018-1450
DWG NO.: T_PCORR_81450
DATE: 07.19.19

SHEET
T39 OF 70

GRADING (BY OTHERS)

DWG: F:\2018\1001-1500\018-1450\40-Design\AutoCAD\Final Plans\Xref\T_PCORR_81450.dwg
 XREFS: v_xbou_81450 V_TOPO_81450 T_PBASE_81450 C_PBASE_81450 T_PTBULK_81450
 DATE: Jul 25, 2019 9:37am USER: ascavedra



**Accepted
Record Drawings**

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Olsson

Olsson Engineering - MO State Certificate of Authority #001592
77301 West 133rd Street, Suite 200
TEL 913.381.1170
Overland Park, KS 66213-4750
FAX 913.381.1174
www.olsson.com

RECORD DRAWING



"NOT AS BUILT"

[illegible]

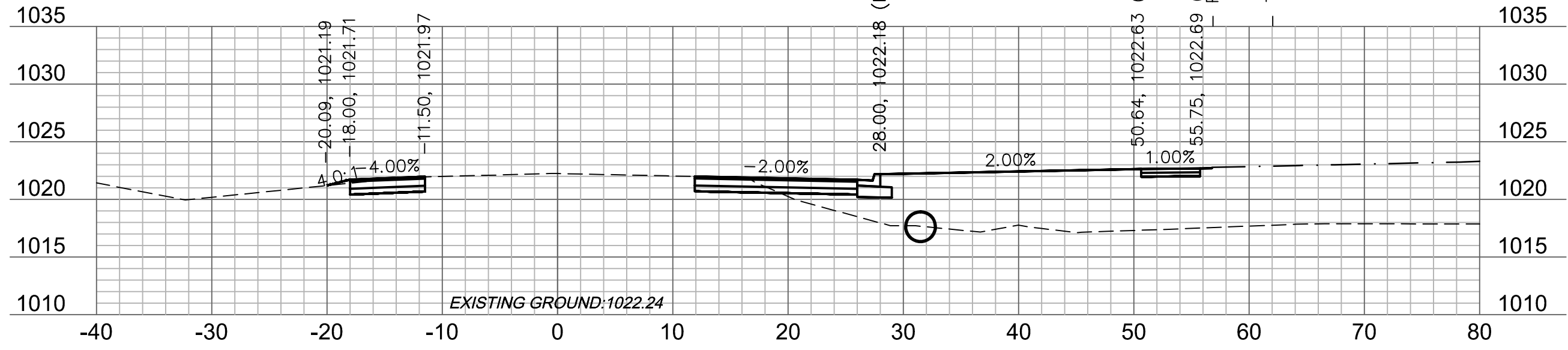
OLDHAM PARKWAY CROSS SECTIONS	
OREILLY DEVELOPMENT SENIOR LIVING FACILITY OLDHAM PARKWAY & PRINCETON DRIVE IMPROVEMENTS	
LEE'S SUMMIT, MISSOURI	2019

C.O.A. NO.: 001592
DRAWN BY: AS
CHECKED BY: JKL
APPROVED BY: RBF
QA/QC BY: JKL/RBF
PROJECT NO.: 018-1450
DWG NO.: T_PCORR_81450
DATE: 07.19.19

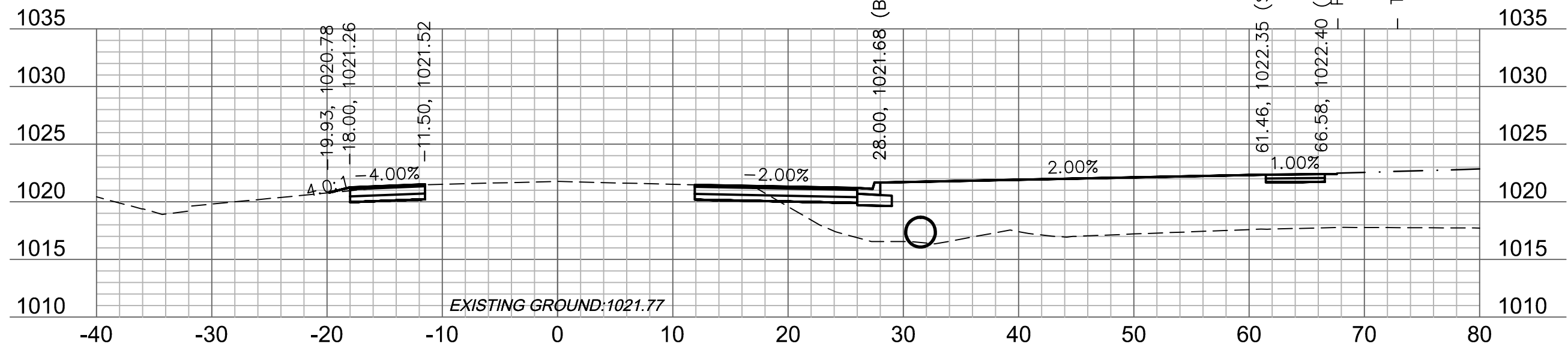
SHEET
T40 OF 70

GRADING (BY OTHERS)	
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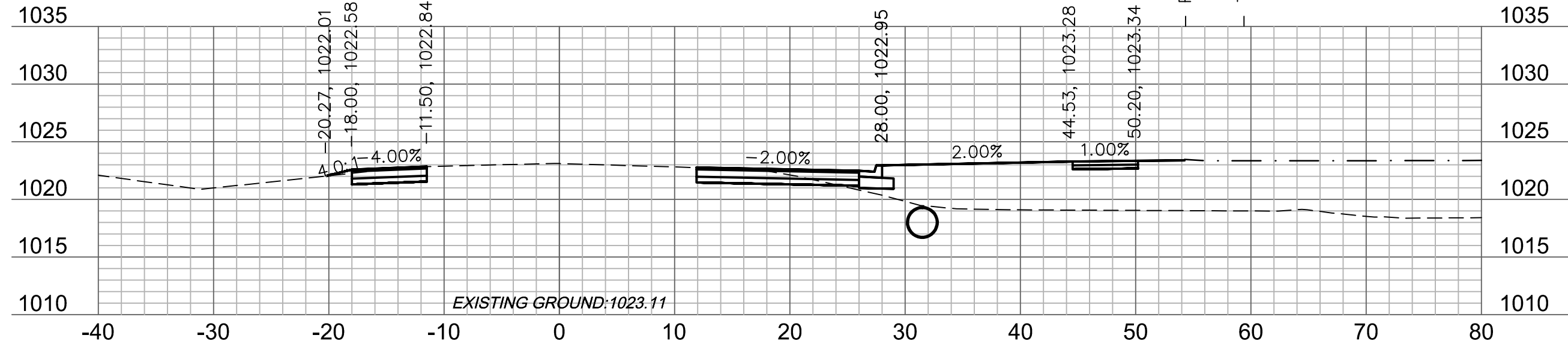
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DATE: Jul 2



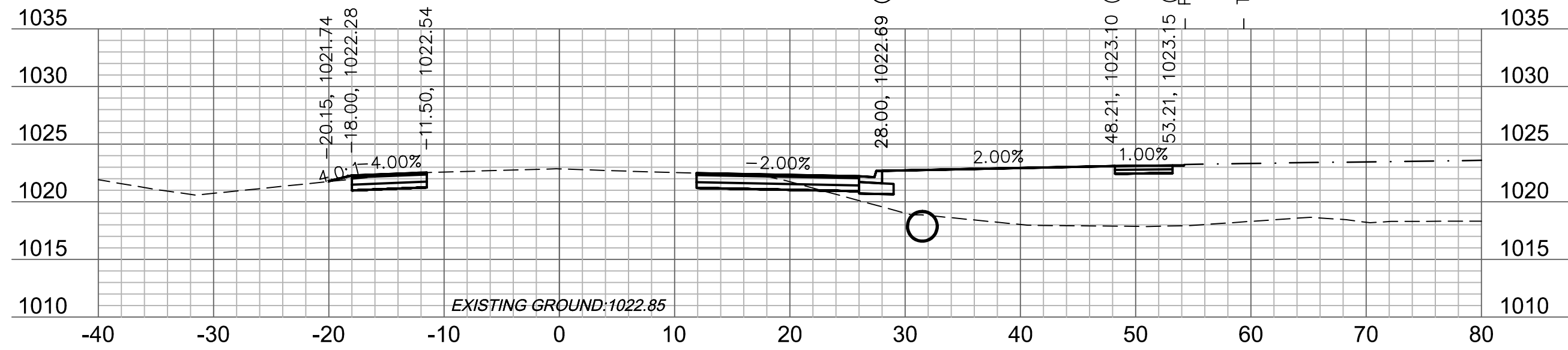
21+75

 $21+50$ 

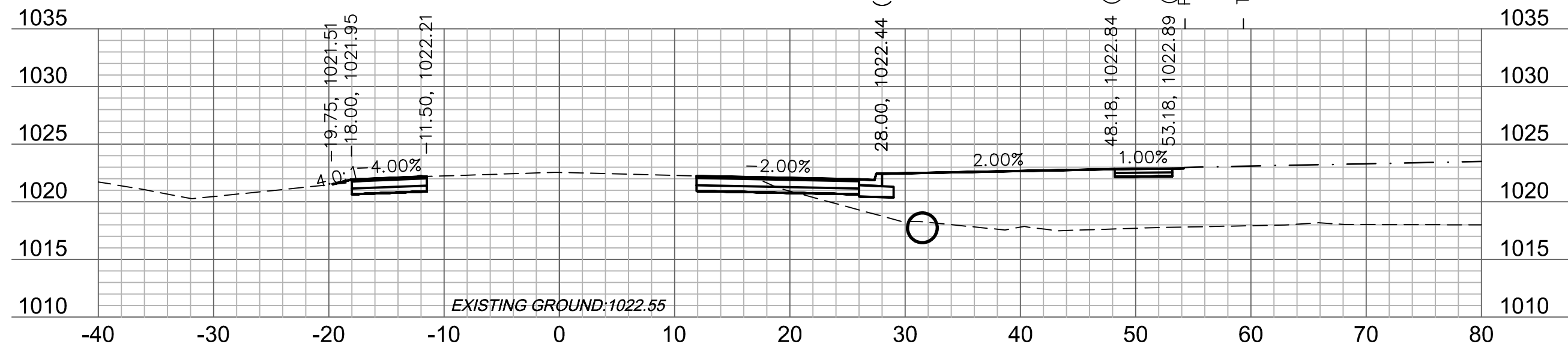
21+25



22+50



22+25



22+00

**Accepted
Record Drawings**

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RECORD DRAWING



"NOT AS BUILT"

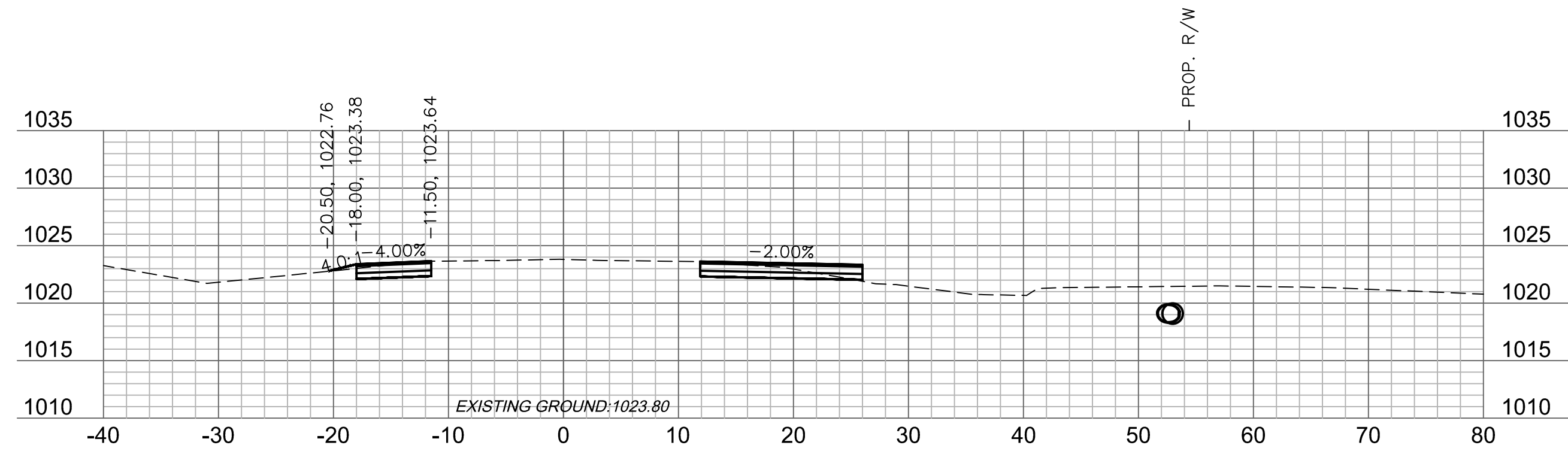
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OLDHAM PARKWAY CROSS SECTIONS	
OREILLY DEVELOPMENT SENIOR LIVING FACILITY OLDHAM PARKWAY & PRINCETON DRIVE IMPROVEMENTS	
LEE'S SUMMIT, MISSOURI	2019

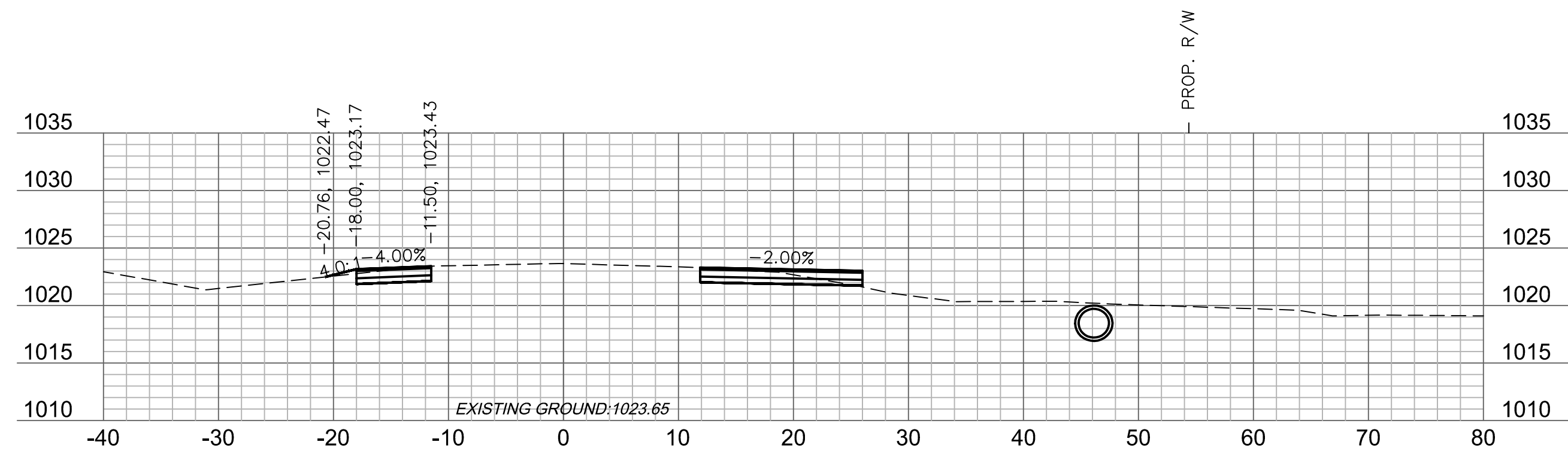
C.O.A. NO.: 001592
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CHECKED BY: JKL
APPROVED BY: RBF
QA/QC BY: JKL/RBF
PROJECT NO.: 018-1450
DWG NO.: T_PCORR 81450
DATE: 07.19.19

SHEET
T41 OF 70

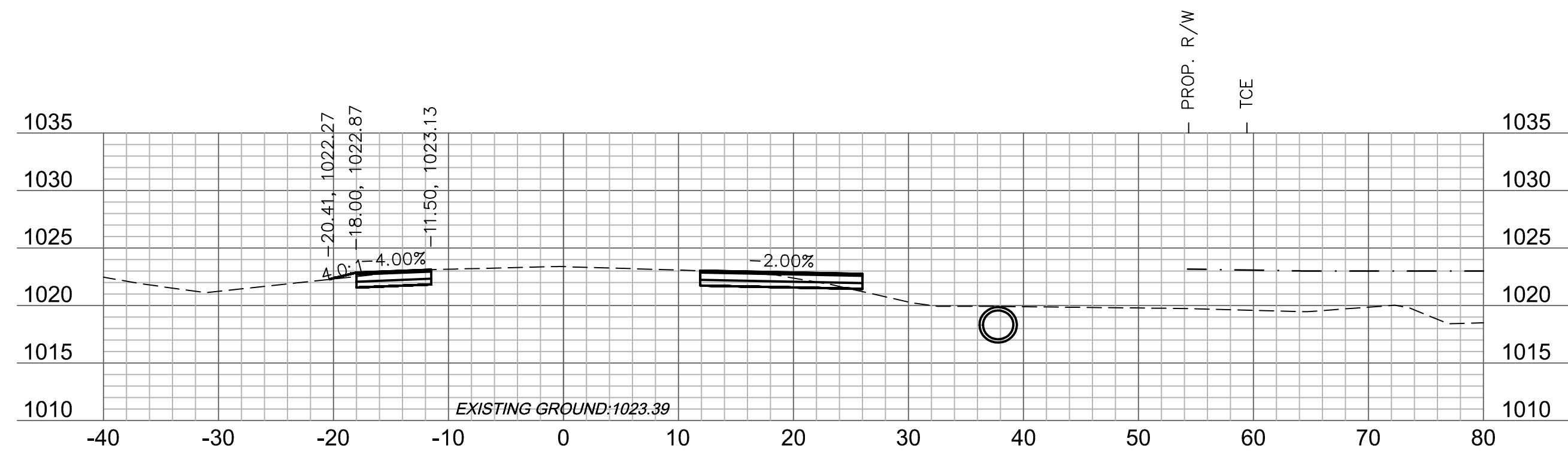
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 DATE: Jul 25, 2019 9:37am USER: ascavedra



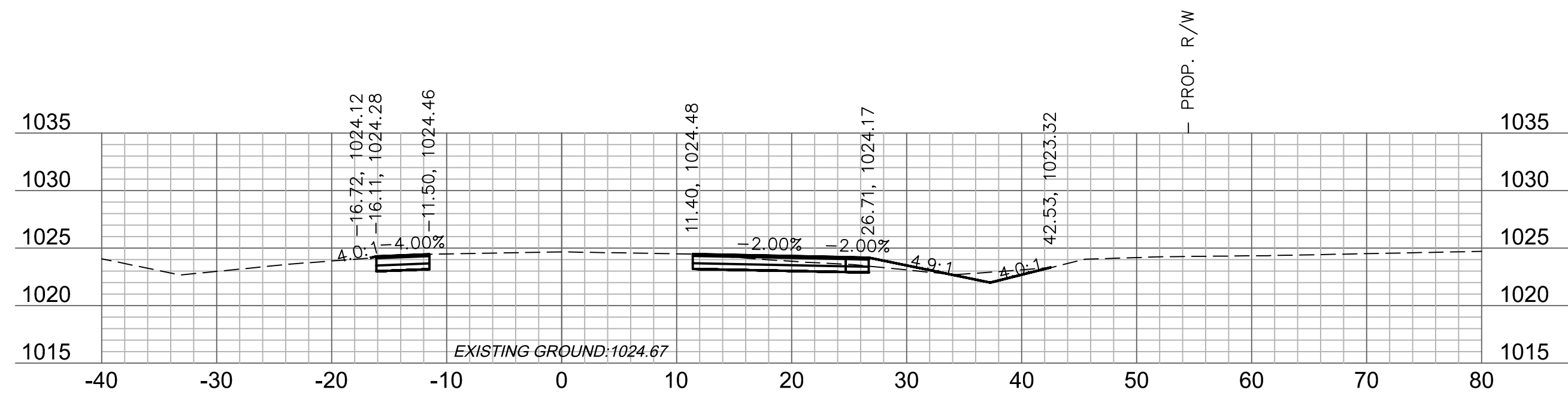
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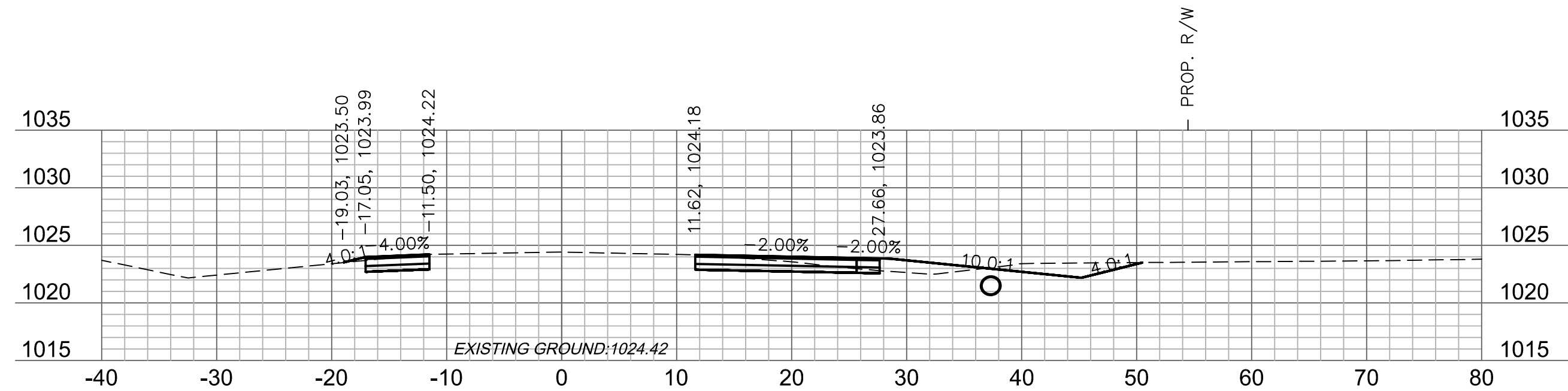
23+00



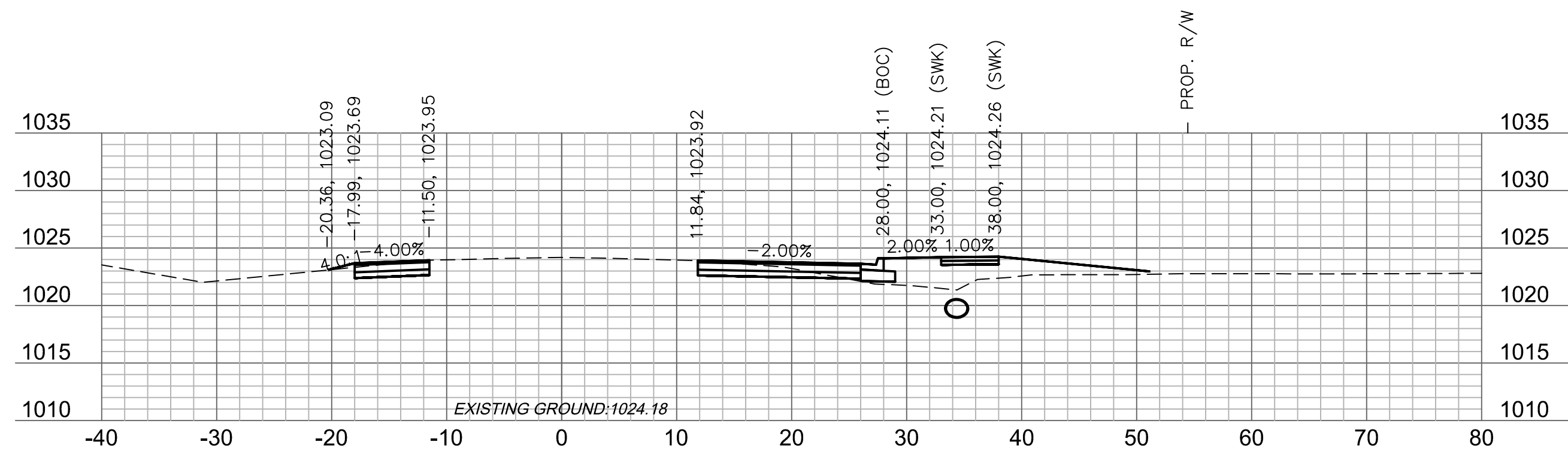
22+75



24+00



23+75



23+50

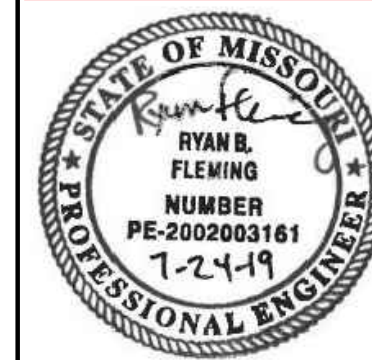
**Accepted
Record Drawings**

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olsson

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RECORD DRAWING



"NOT AS BUILT"

[illegible]

OLDHAM PARKWAY CROSS SECTIONS

OREILLY DEVELOPMENT SENIOR LIVING FACILITY
101 DHAM PARKWAY & PRINCETON DRIVE IMPROVEMENTS

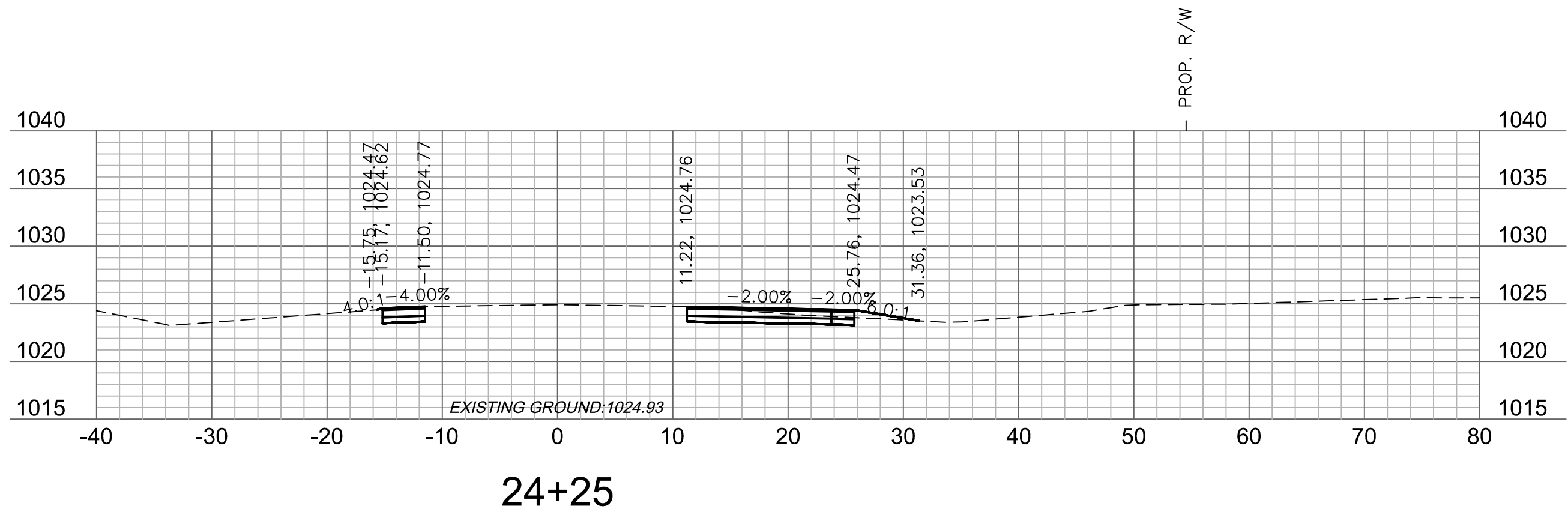
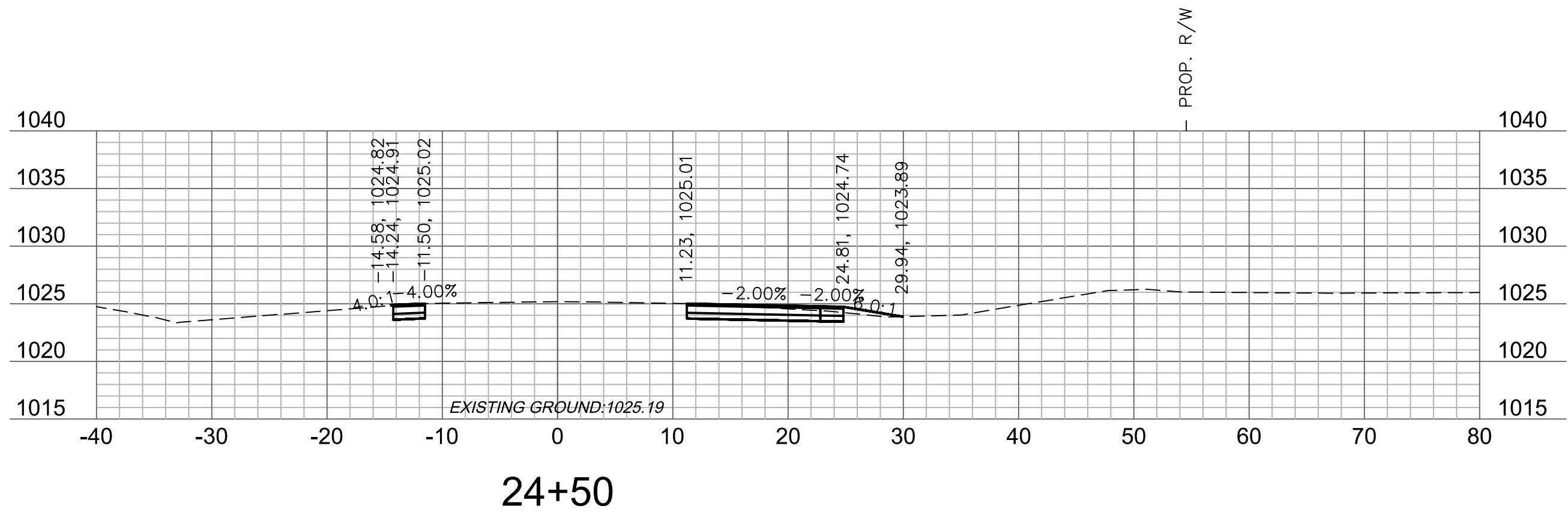
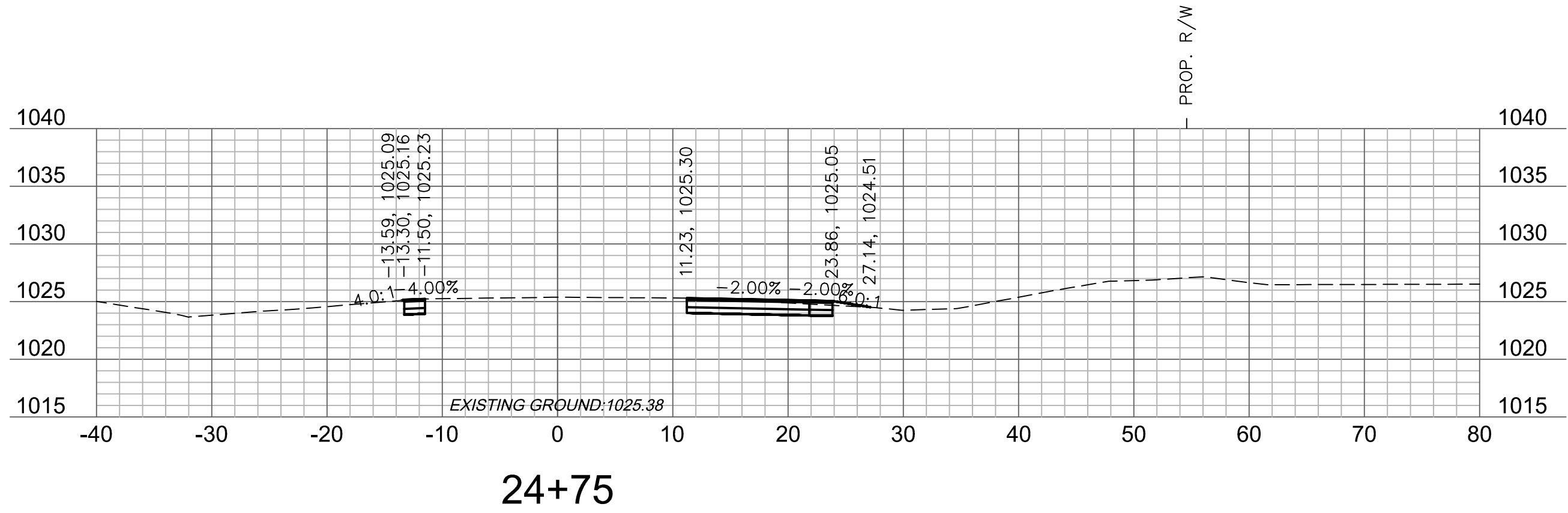
2019

C.O.A. NO.: 001592
DRAWN BY: AS
CHECKED BY: JKL
APPROVED BY: RBF
QA/QC BY: JKL/RBF
PROJECT NO.: 018-1450
DWG NO.: T_PCORR_81450
DATE: 07.19.19

SHEET
T42 OF 70

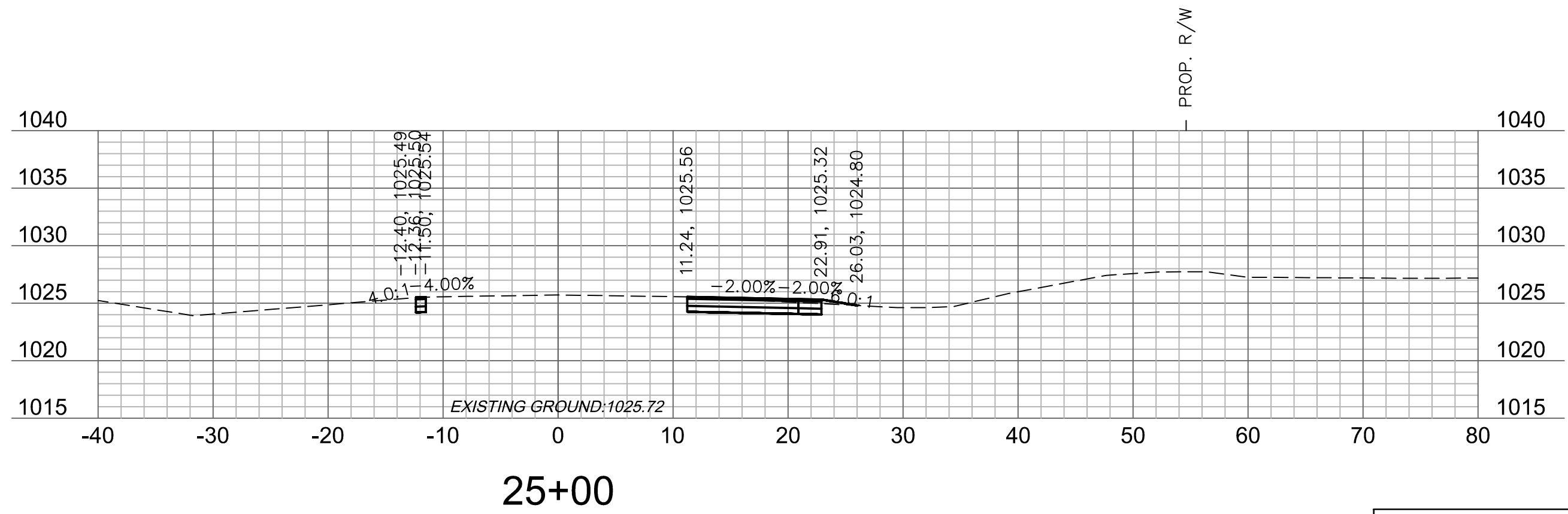
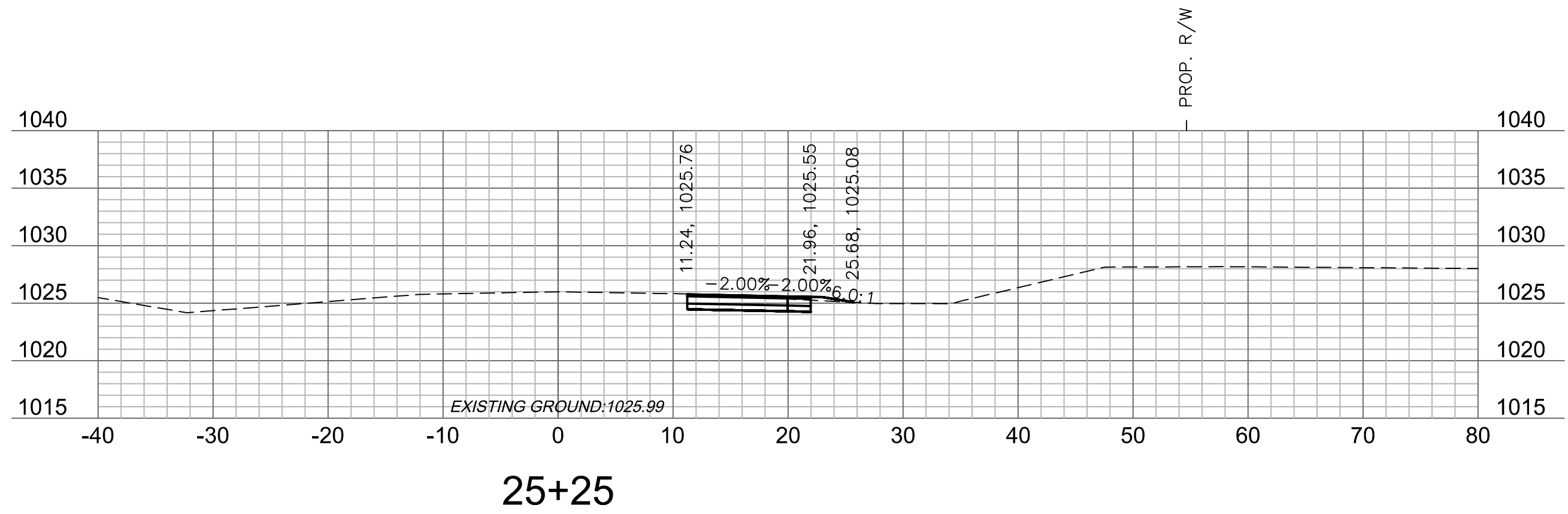
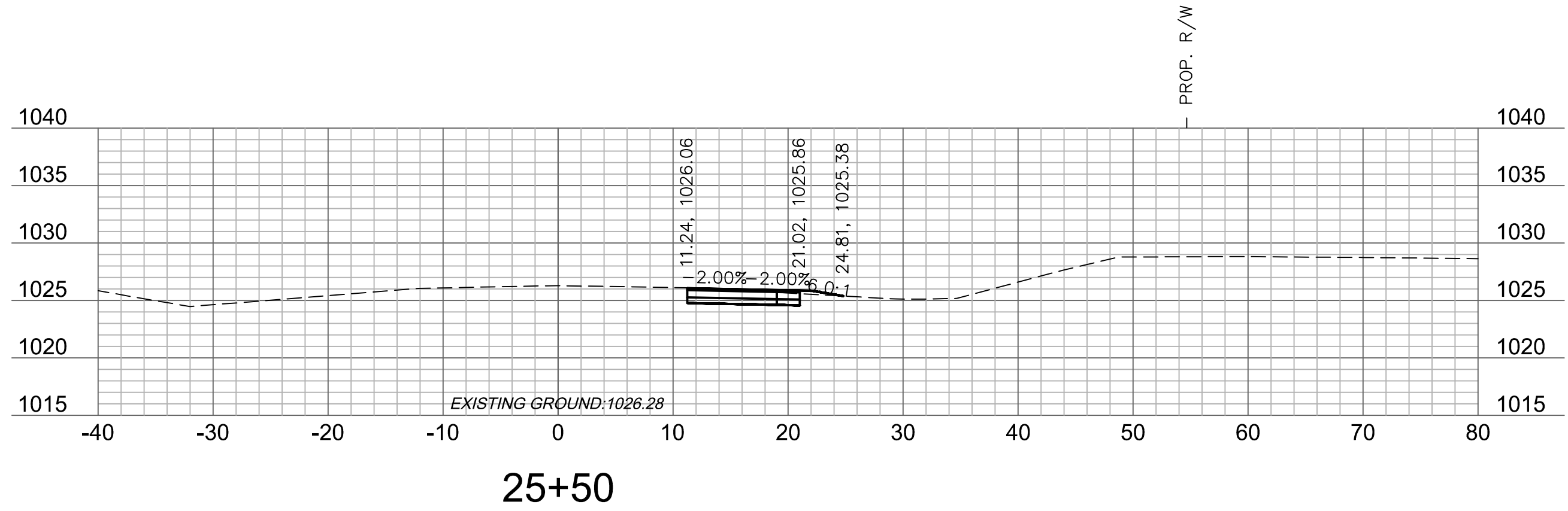
GRADING (BY OTHERS)	
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USER: asaavedra
C_PBASE_81450
T_PTBLK_81450



**Accepted
Record Drawings**

These plans have been reviewed for accuracy and are accepted for basic conformance to the approved construction drawings.



GRADING (BY OTHERS)

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Overland Park, KS 66213-4750 FAX 913.381.1174 www.olsson.com

RECORD DRAWING



"NOT AS BUILT"

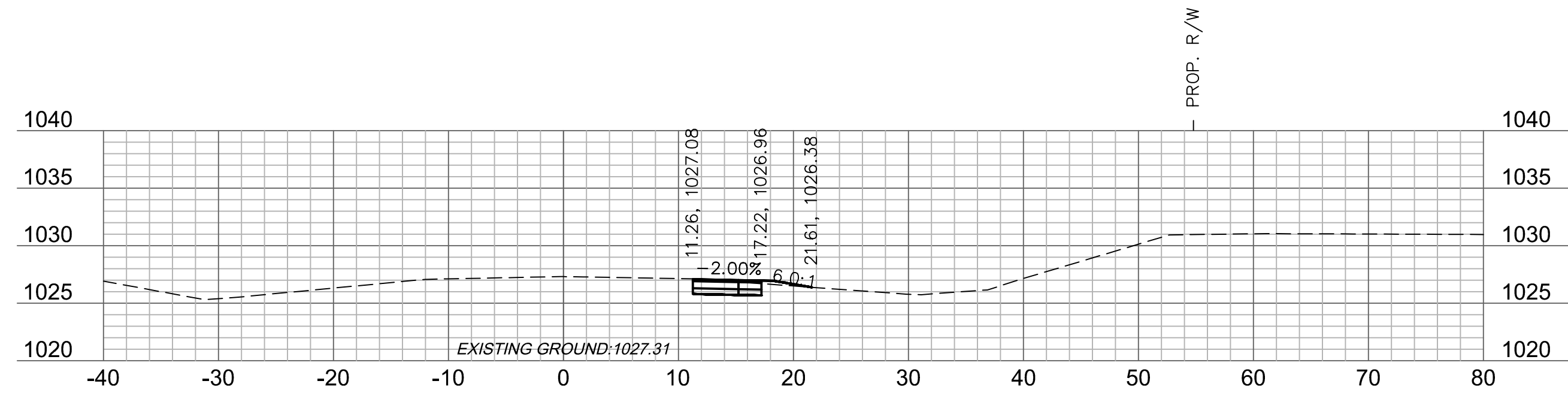
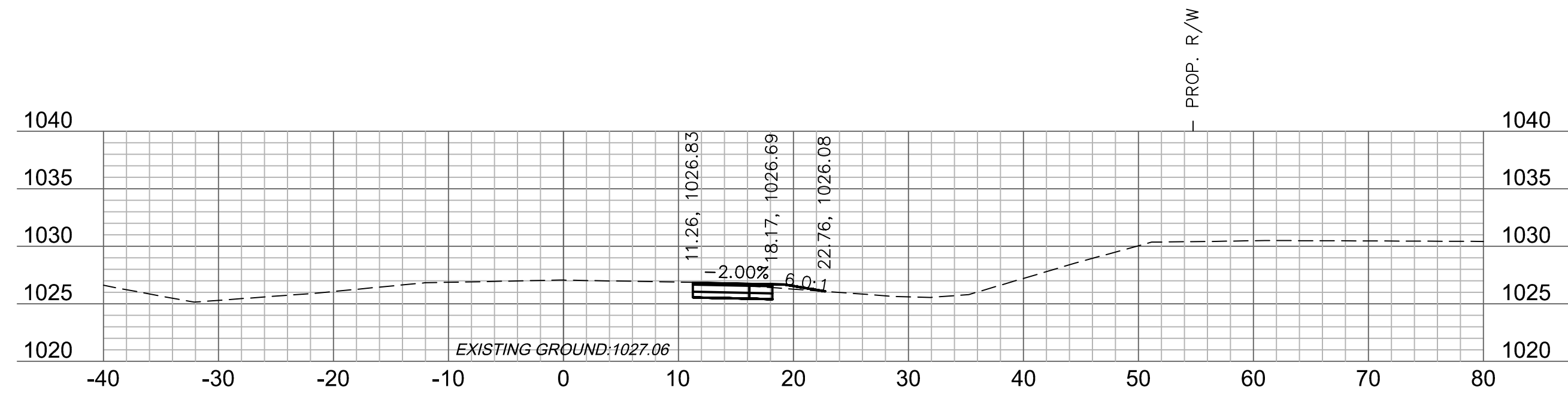
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OLDHAM PARKWAY CROSS SECTIONS	
OREILLY DEVELOPMENT SENIOR LIVING FACILITY OLDHAM PARKWAY & PRINCETON DRIVE IMPROVEMENTS	2019
LEE'S SUMMIT, MISSOURI	

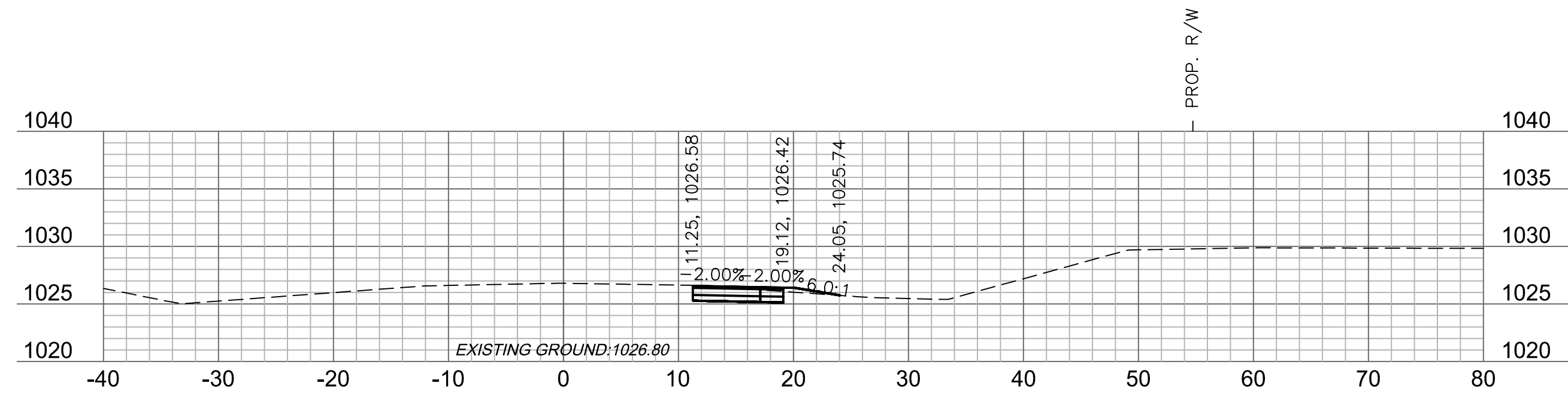
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APPROVED BY: RBF
QA/QC BY: JKL/RBF
PROJECT NO.: 018-1450
DWG NO.: T_PCORR_81450
DATE: 07.19.19

SHEET
T43 OF 70

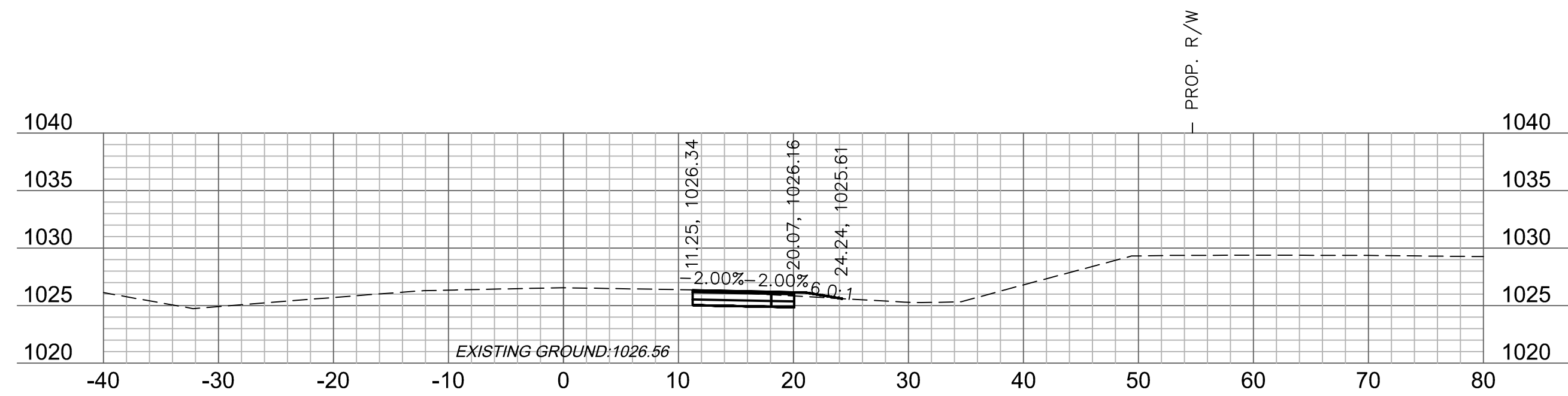
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XREFS: v_xbou_81450 V_TOPO_81450 T_PBASE_81450 C_PBASE_81450 T_PTBULK_81450
DATE: Jul 25, 2019 9:33am USER: ascavedra

 $26+50$ 

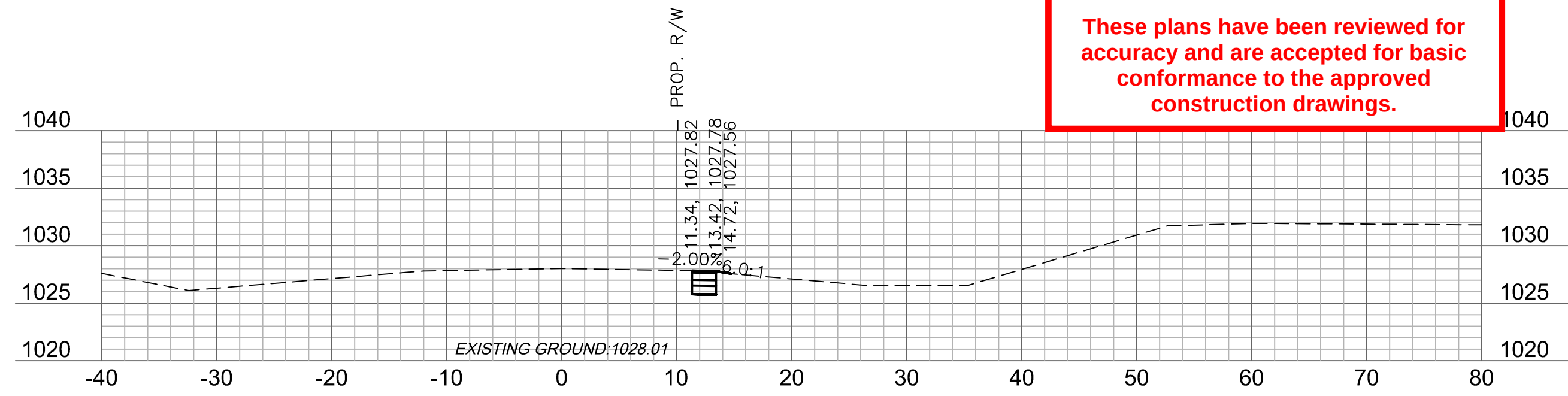
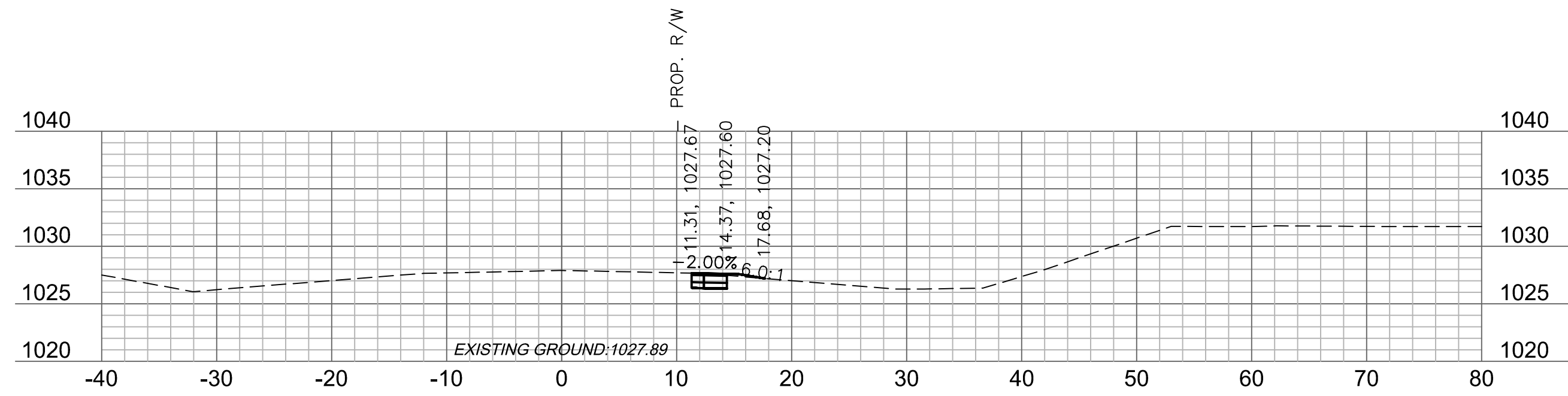
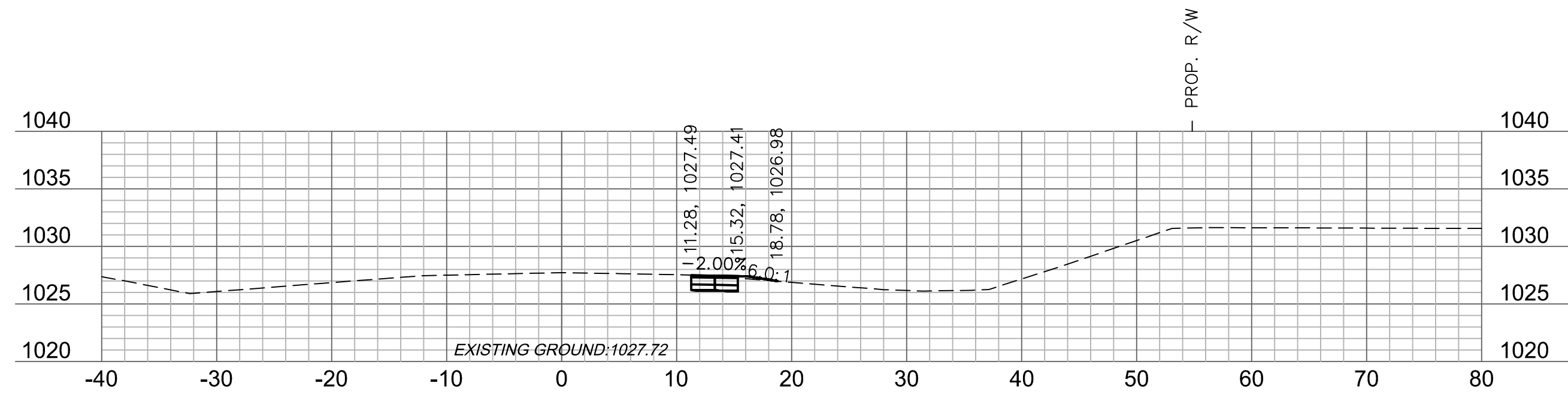
26+25



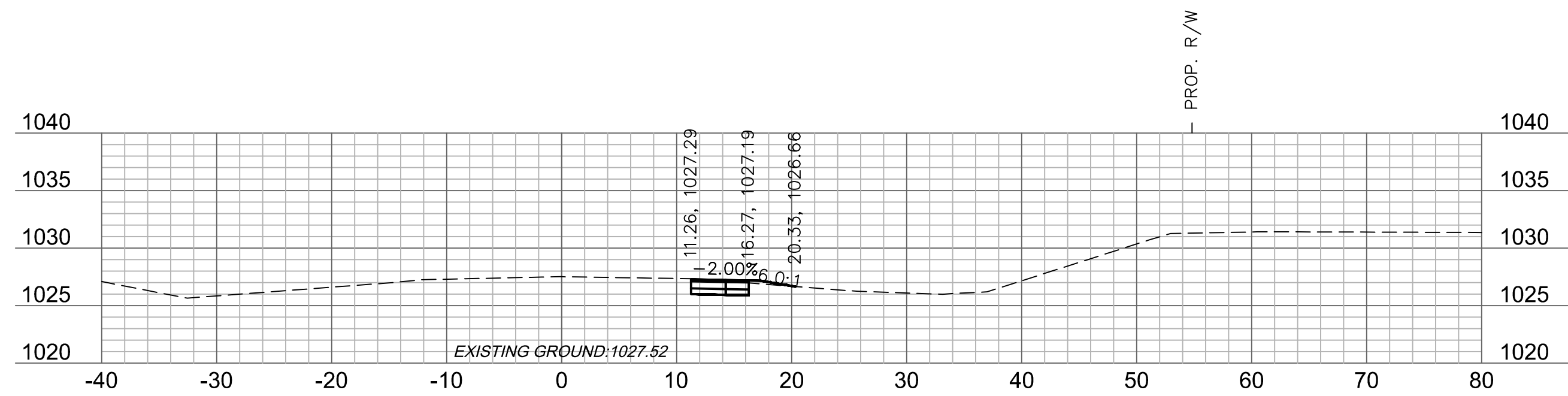
26+00



25+75

 $27+50$  $27+25$ 

27+00



26+75

**Accepted
Record Drawings**

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GRADING (BY OTHERS)

olsson

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Overland Park, KS 66213-4750 FAX 913.381.1174 www.olsson.com

RECORD DRAWING



"NOT AS BUILT"

[illegible]

OLDHAM PARKWAY CROSS SECTIONS

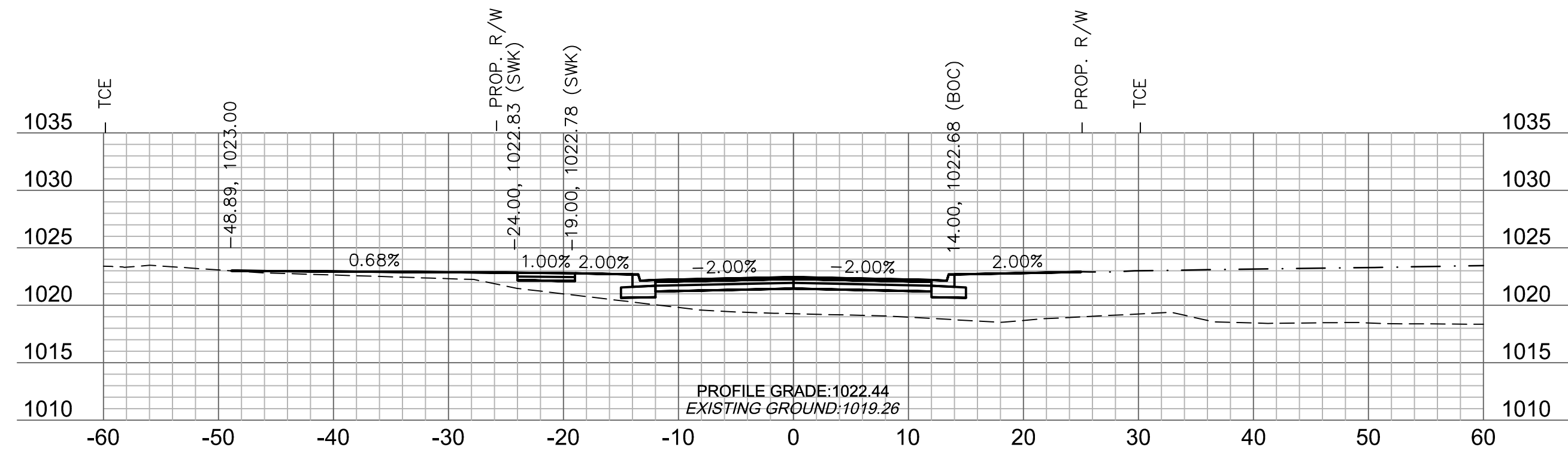
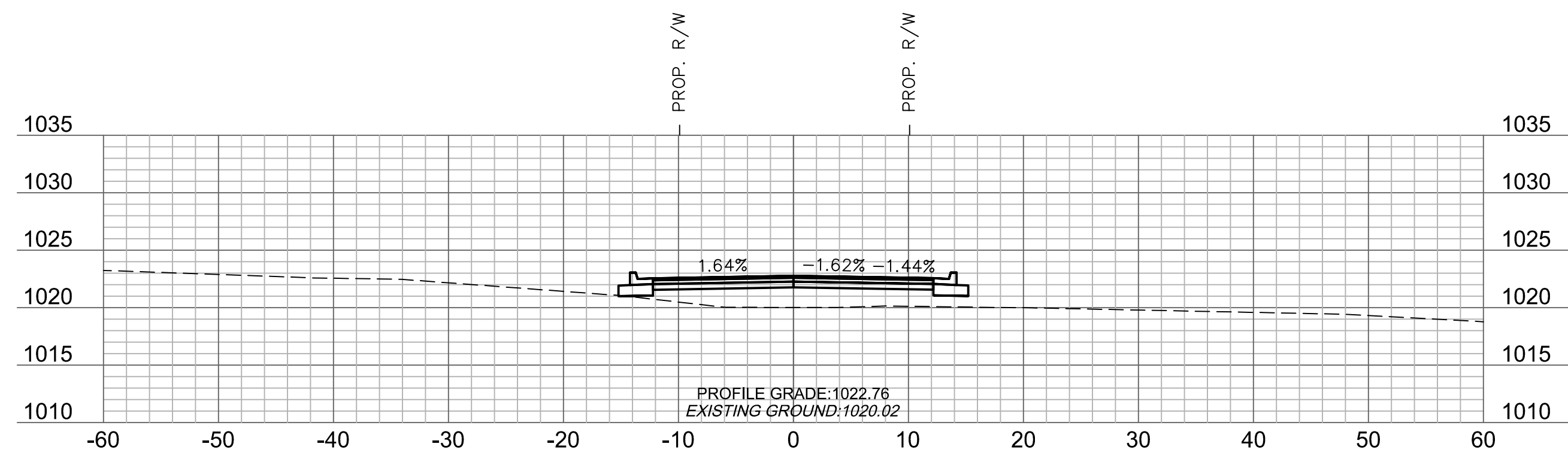
OREILLY DEVELOPMENT SENIOR LIVING FACILITY
OLDHAM PARKWAY & PRINCETON DRIVE IMPROVEMENTS

20.

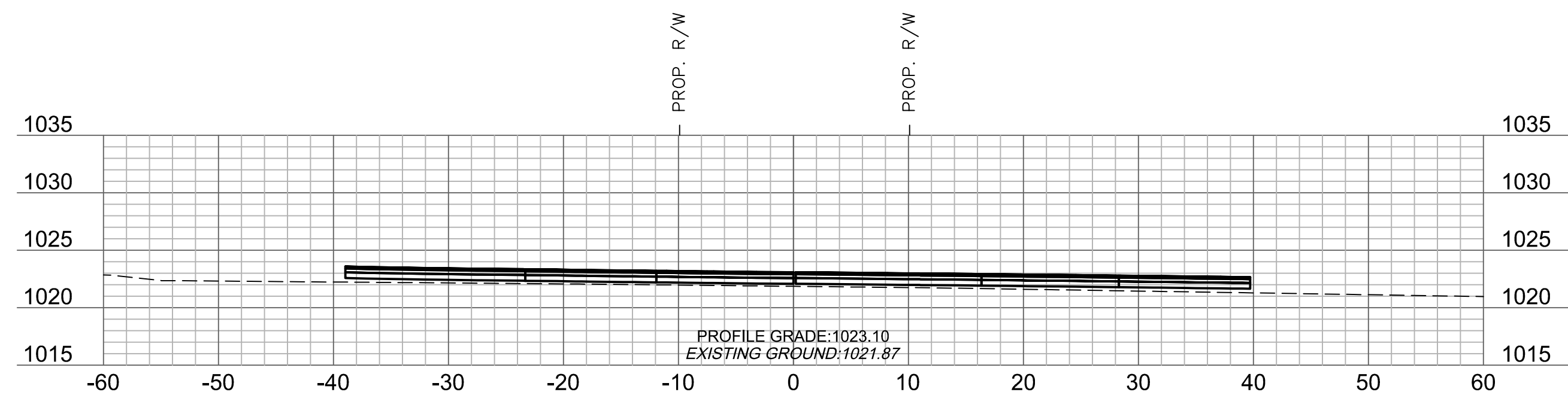
C.O.A. NO.: 001592
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APPROVED BY: RBF
QA/QC BY: JKL/RBF
PROJECT NO.: 018-1450
DWG NO.: T_PCORR_81450
DATE: 07.19.19

SHEET
T44 OF 70

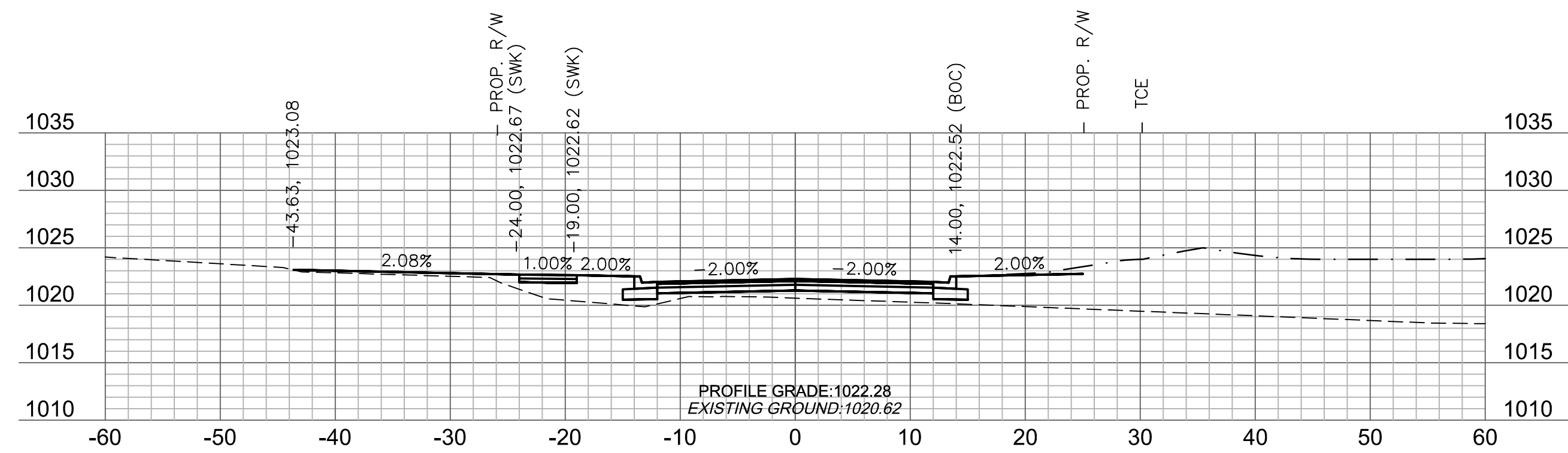
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DATE: Jul 25, 2019 9:33am USER: ascavedra

 $100+75$ 

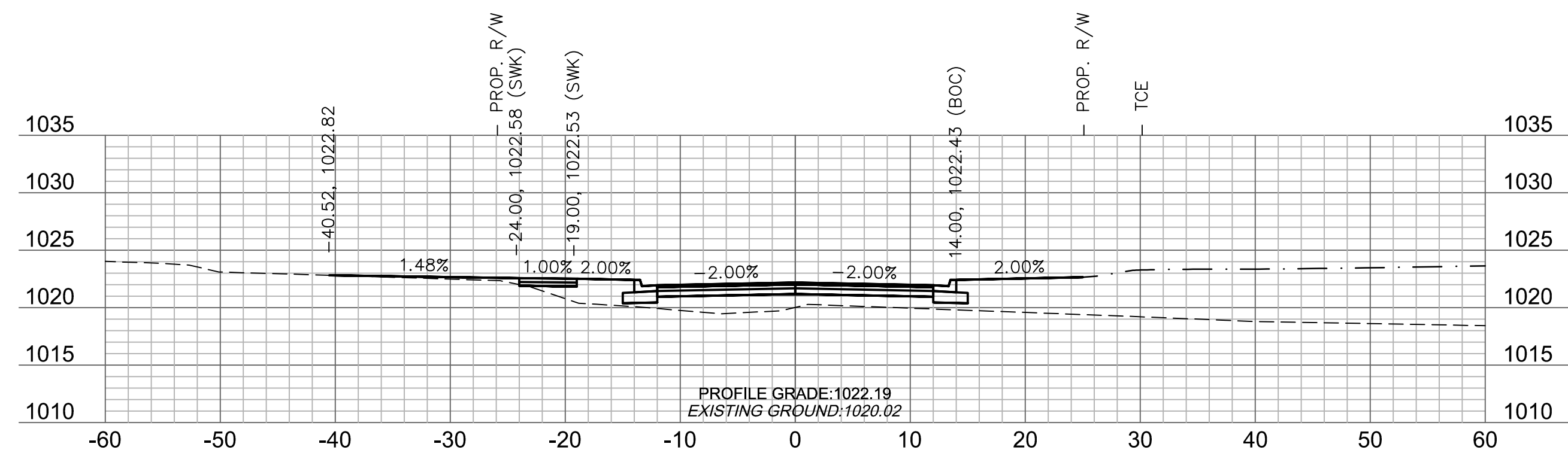
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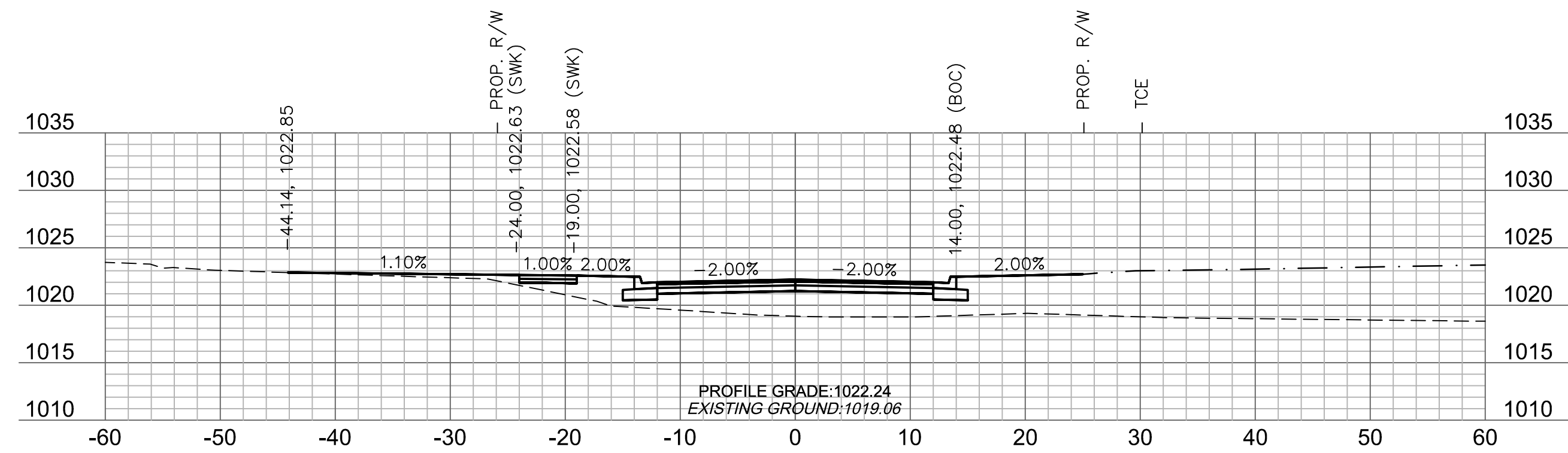
100+25



101+50



101+25



101+00

**Accepted
Record Drawings**

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Olsson

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7301 West 133rd Street, Suite 200 TEL 913.381.1170
Overland Park, KS 66213-4750 FAX 913.381.1174 www.olsson.com

RECORD DRAWING



"NOT AS BUILT"

[illegible]

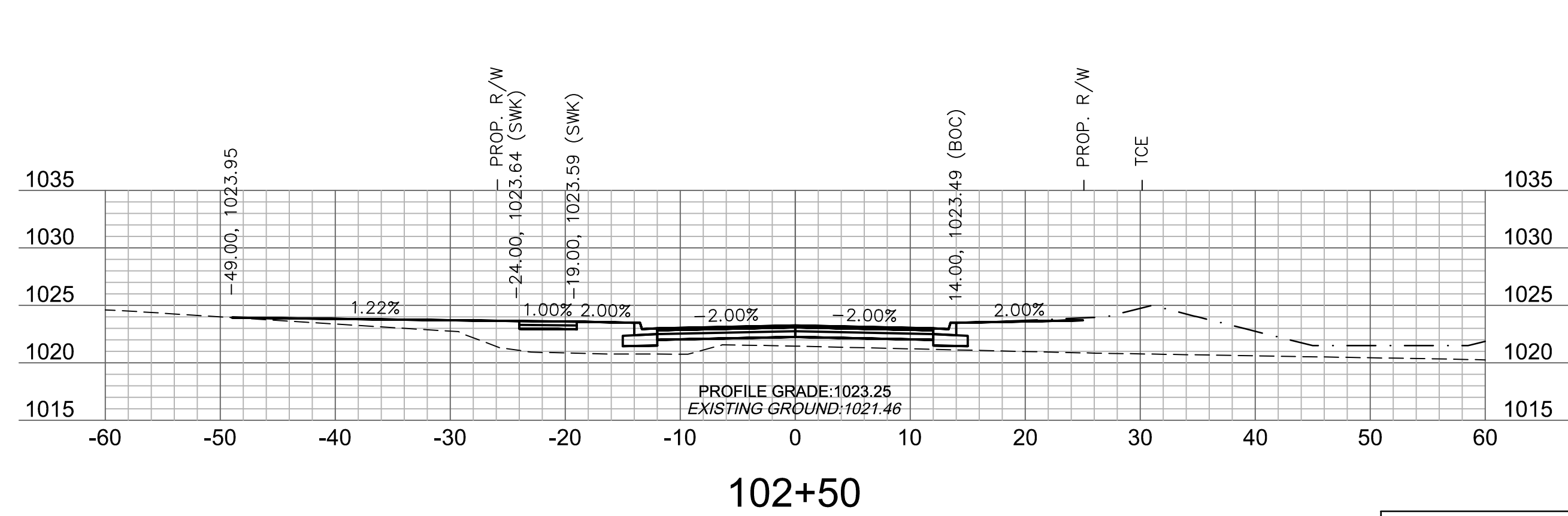
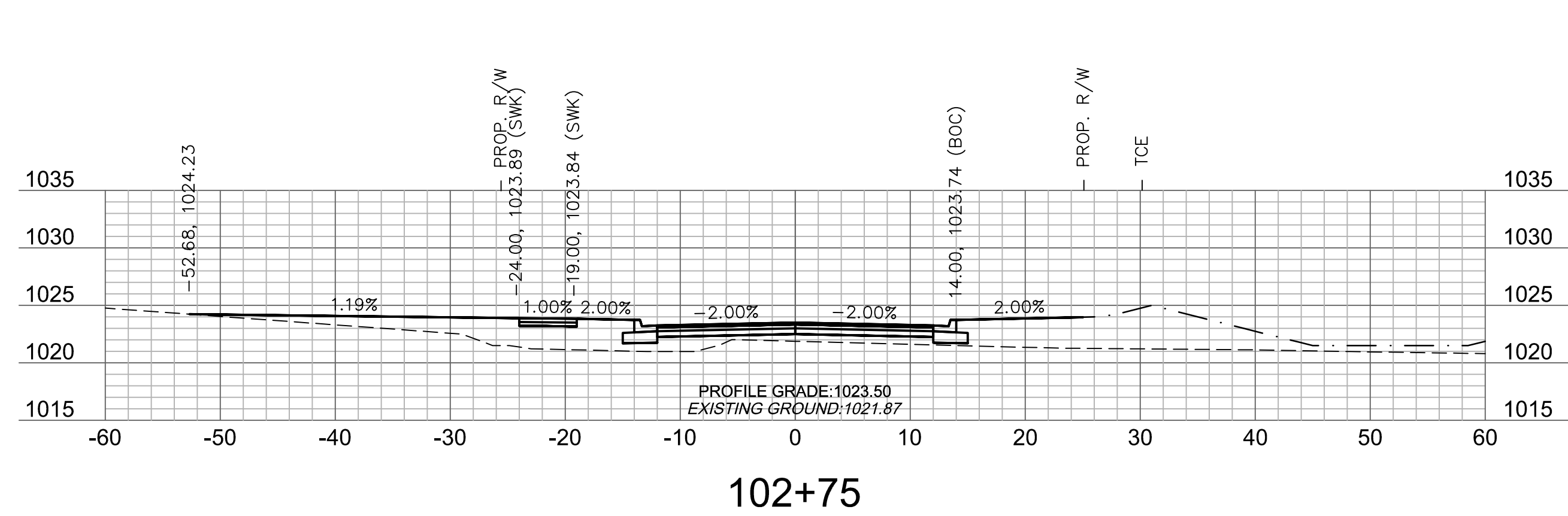
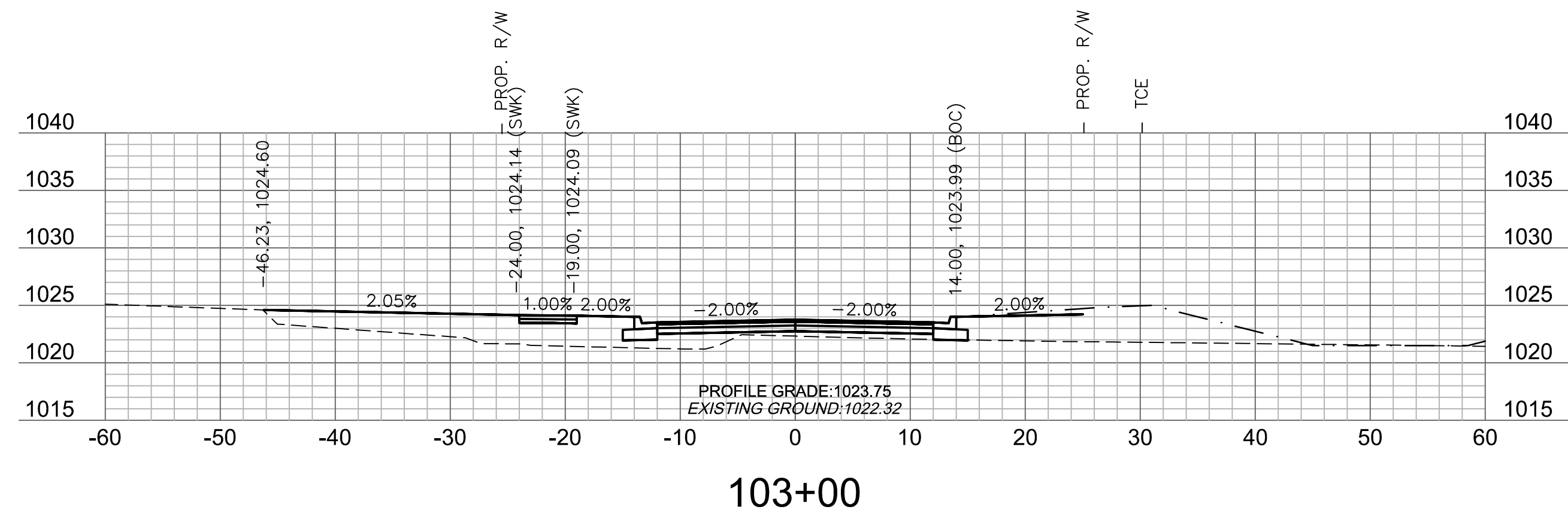
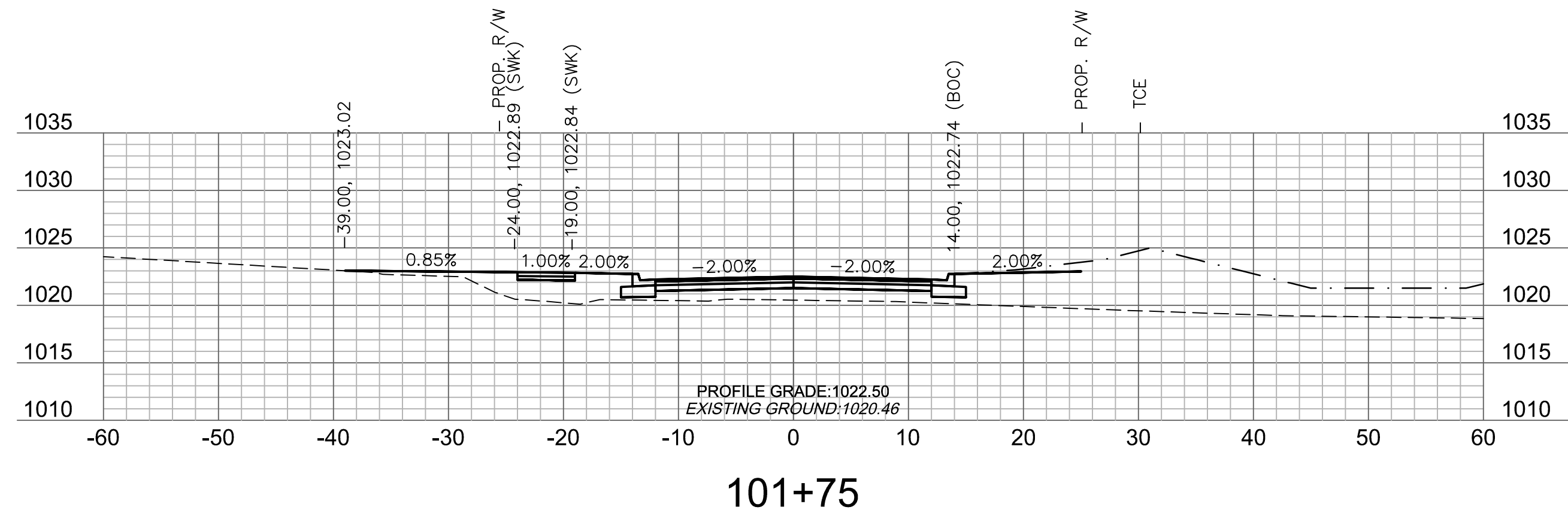
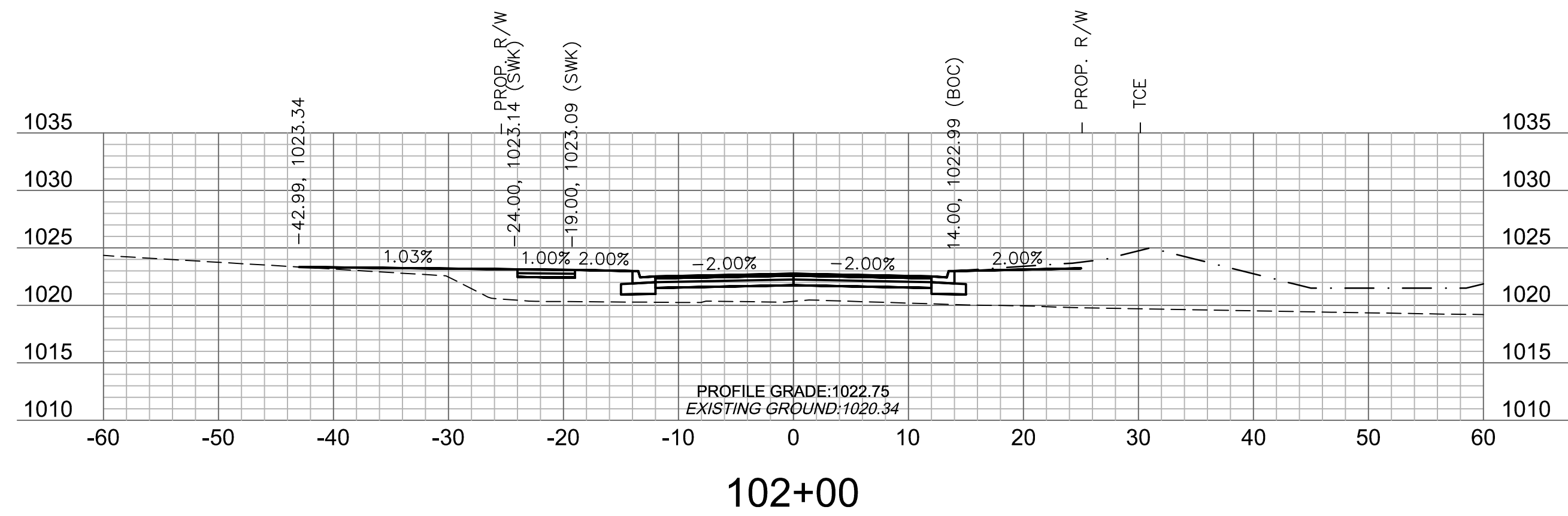
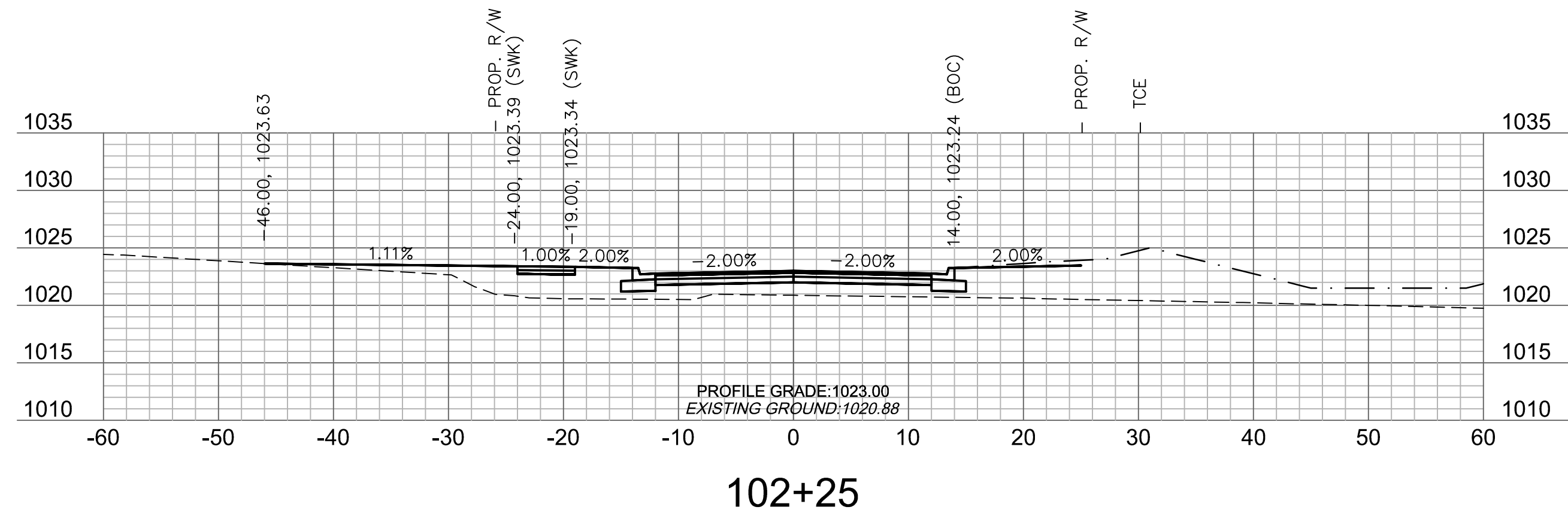
PRINCETON DRIVE CROSS SECTIONS	
O'REILLY DEVELOPMENT SENIOR LIVING FACILITY OLDHAM PARKWAY & PRINCETON DRIVE IMPROVEMENTS	
LEE'S SUMMIT, MISSOURI	2019

C.O.A. NO.: 001592
DRAWN BY: AS
CHECKED BY: JKL
APPROVED BY: RBF
QA/QC BY: JKL/RBF
PROJECT NO.: 018-1450
DWG NO.: T_PCORR_81450
DATE: 07.19.19

SHEET
T45 OF 70

GRADING (BY OTHERS)	
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 XREFS: v_xbou_81450 V_TOPO_81450 T_PBASE_81450 C_PBASE_81450 T_PTBULK_81450
 DATE: Jul 25, 2019 9:33am USER: ascavedra



**Accepted
Record Drawings**

These plans have been reviewed for accuracy and are accepted for basic conformance to the approved construction drawings.

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Overland Park, KS 66213-4750 FAX 913.381.1174 www.olsson.com

RECORD DRAWING



"NOT AS BUILT"

[illegible]

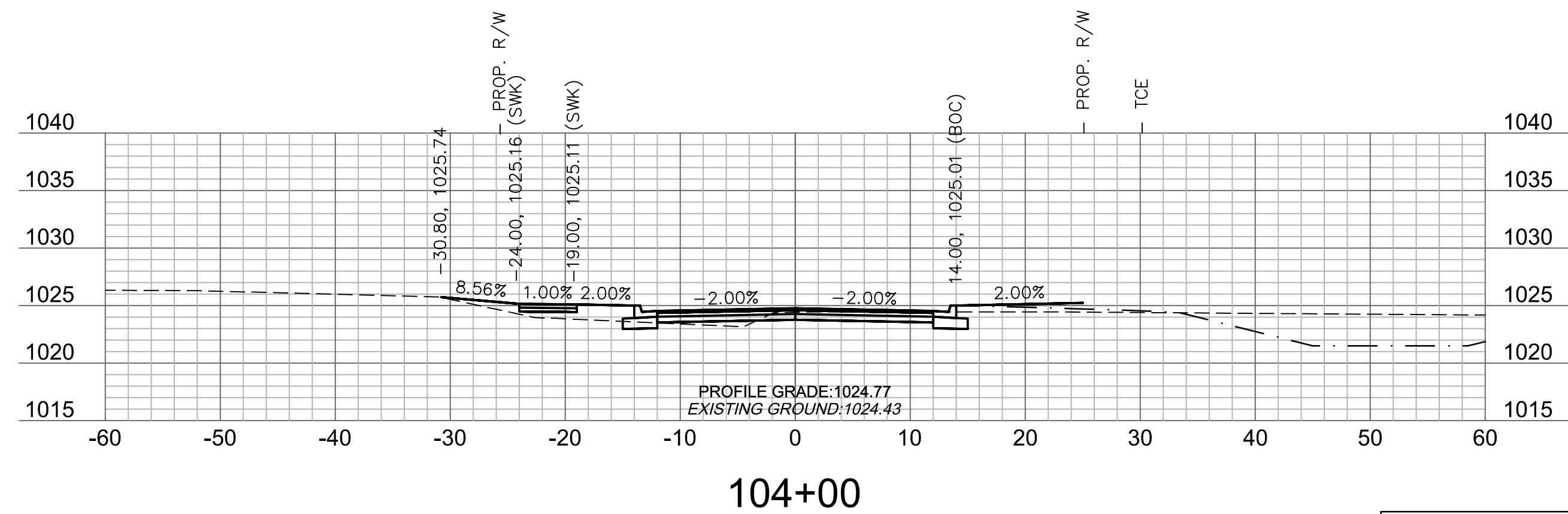
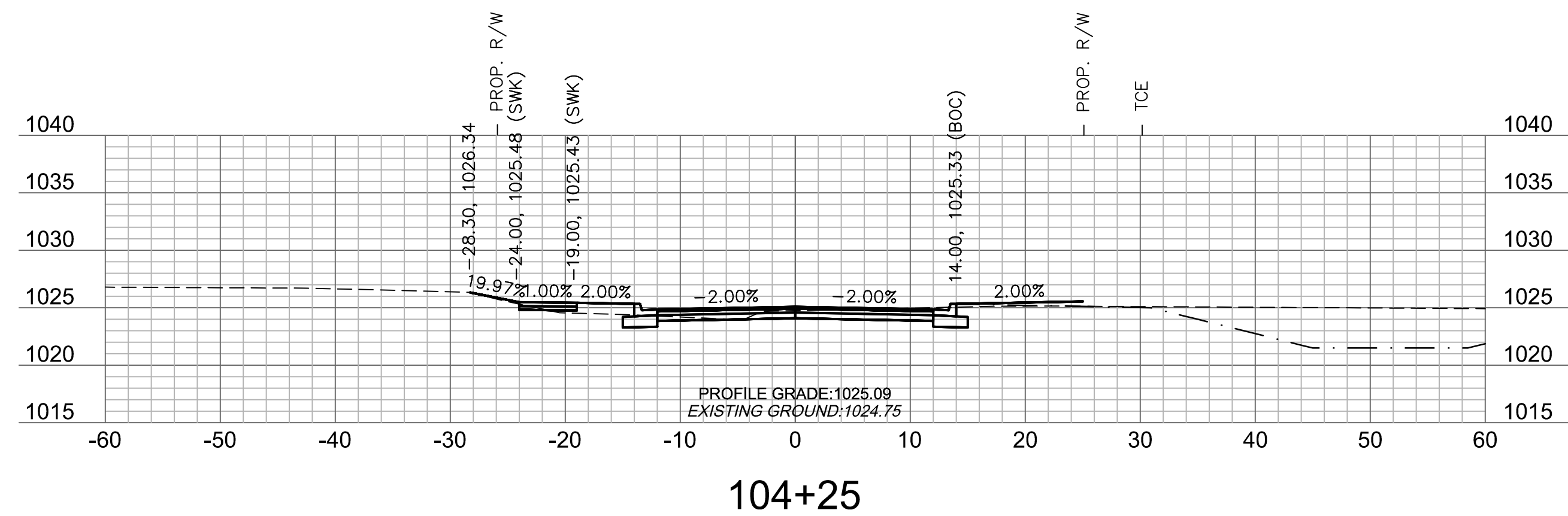
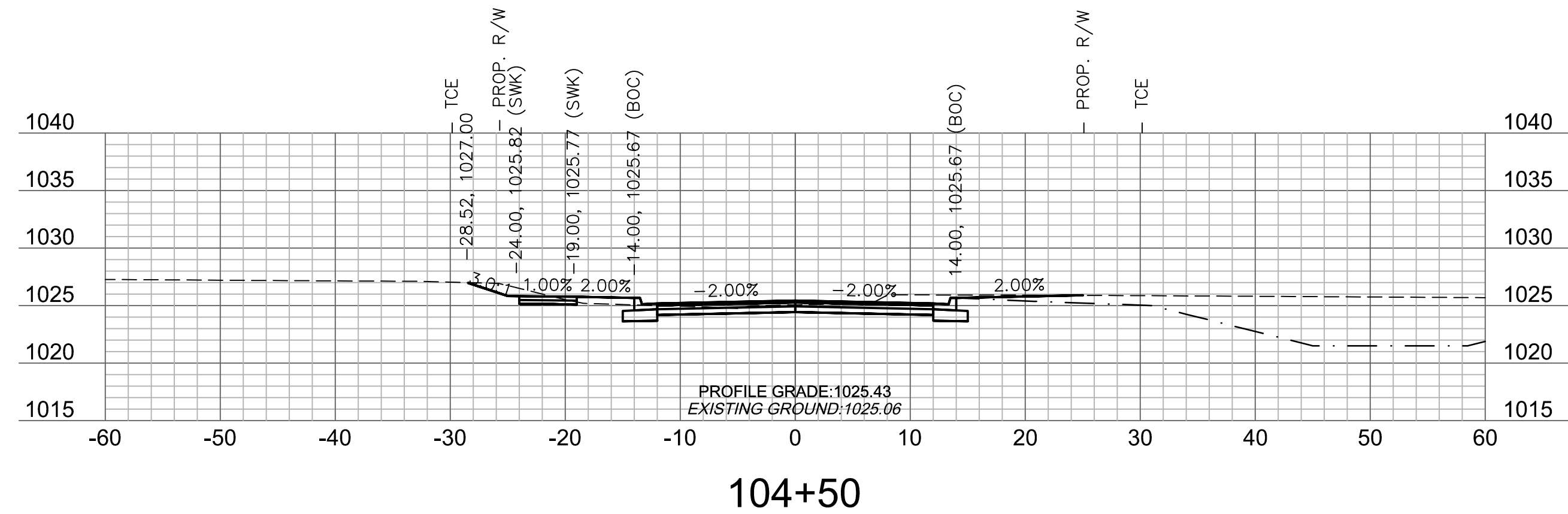
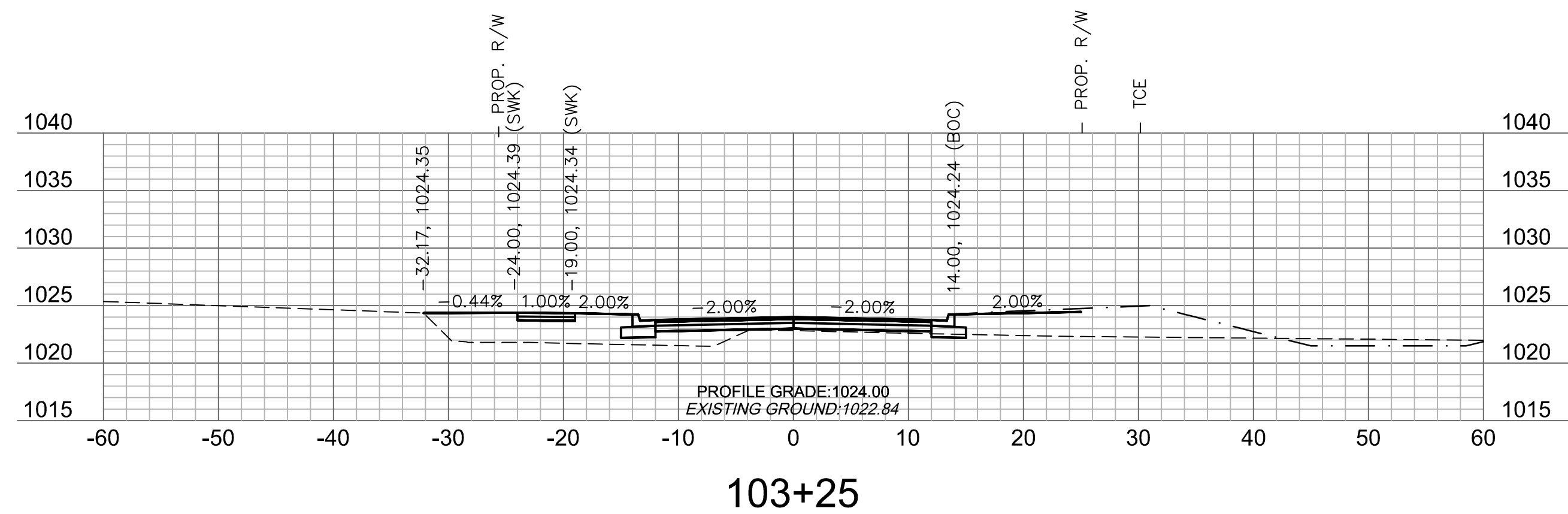
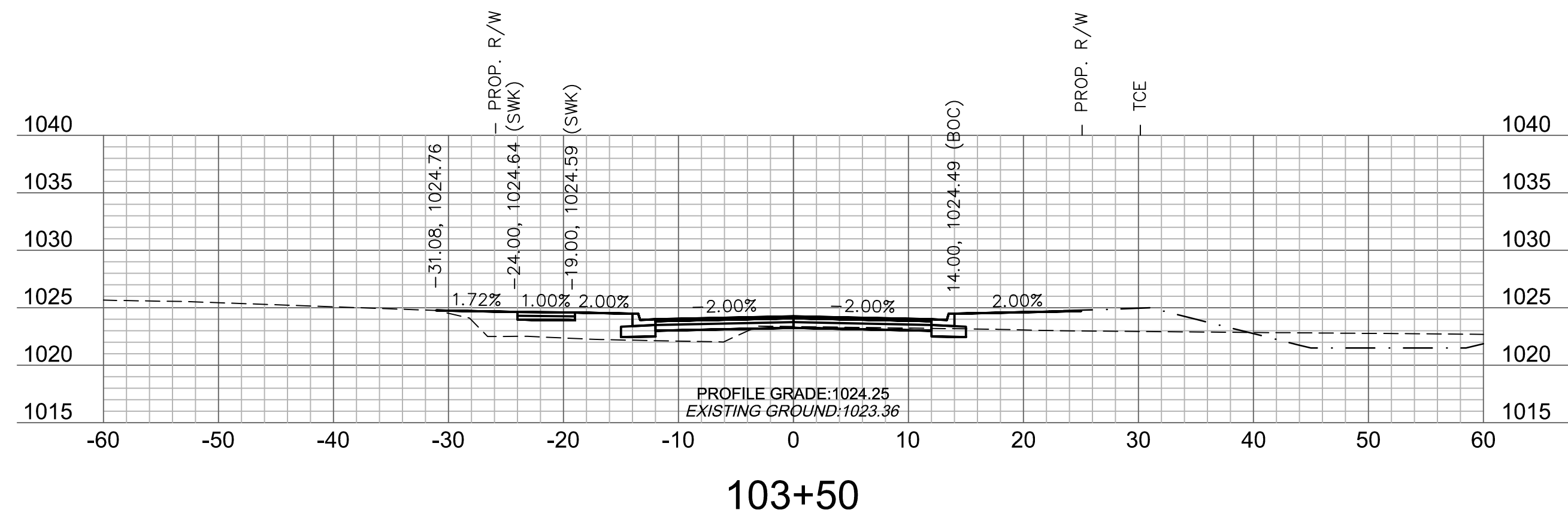
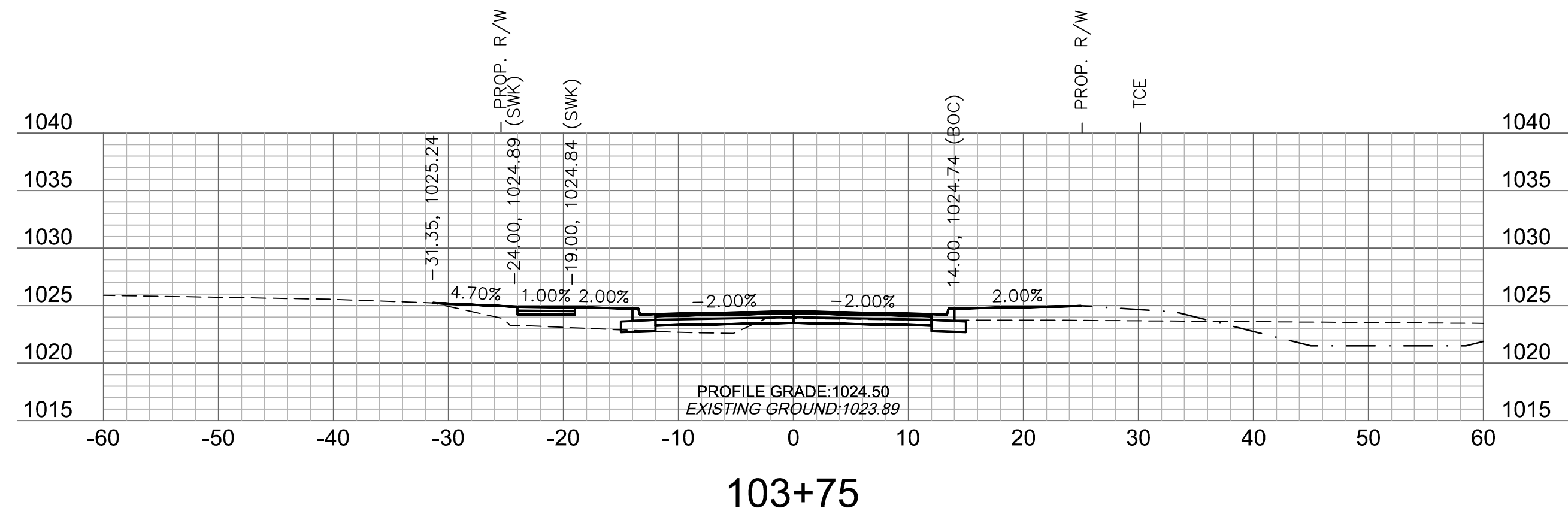
PRINCETON DRIVE CROSS SECTIONS	
O'REILLY DEVELOPMENT SENIOR LIVING FACILITY OLDHAM PARKWAY & PRINCETON DRIVE IMPROVEMENTS	2019
LEE'S SUMMIT, MISSOURI!	

C.O.A. NO.: 001592
DRAWN BY: AS
CHECKED BY: JKL
APPROVED BY: RBF
QA/QC BY: JKL/RBF
PROJECT NO.: 018-1450
DWG NO.: T_PCORR_81450
DATE: 07.19.19

SHEET
T46 OF 70

GRADING (BY OTHERS)	
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DWG: F:\2018\1001-1500\018-1450\40-Design\AutoCAD\Final Plans\Xref\T_PCORR_81450.dwg
 XREFS: v_xbou_81450 V_TOPO_81450 T_PBASE_81450 C_PBASE_81450 T_PTBULK_81450
 DATE: Jul 25, 2019 9:33am USER: ascavedra



**Accepted
Record Drawings**

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Overland Park, KS 66213-4750 FAX 913.381.1174 www.olsson.com

RECORD DRAWING



"NOT AS BUILT"

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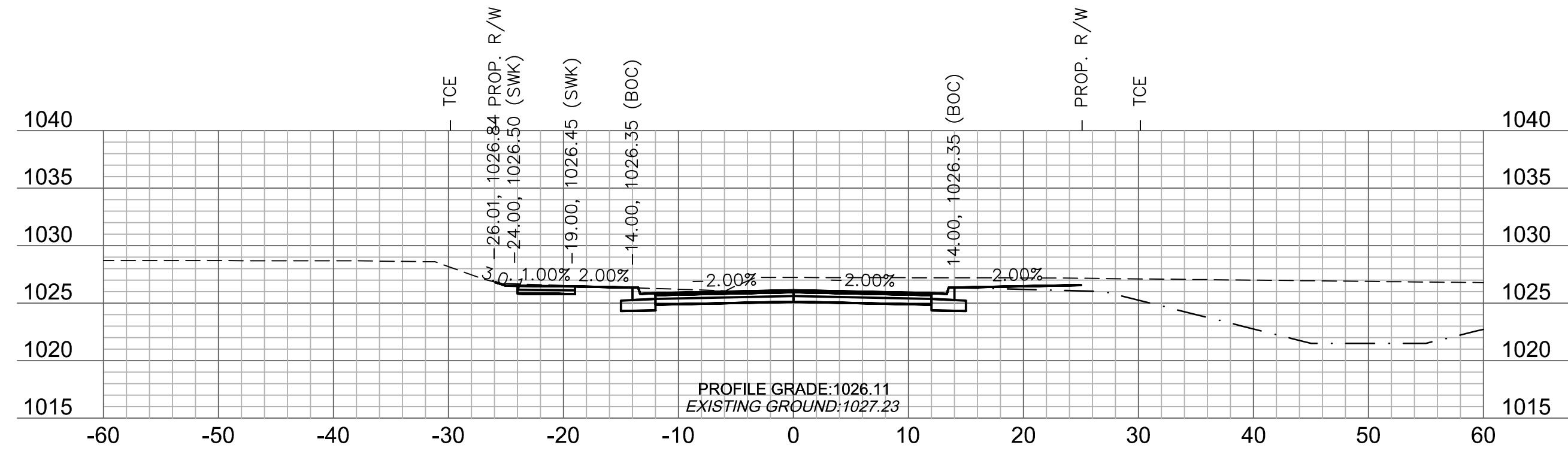
PRINCETON DRIVE CROSS SECTIONS	
O'REILLY DEVELOPMENT SENIOR LIVING FACILITY OLDHAM PARKWAY & PRINCETON DRIVE IMPROVEMENTS	
LEE'S SUMMIT, MISSOURI	2019

C.O.A. NO.: 001592
DRAWN BY: AS
CHECKED BY: JKL
APPROVED BY: RBF
QA/QC BY: JKL/RBF
PROJECT NO.: 018-1450
DWG NO.: T_PCORR_81450
DATE: 07.19.19

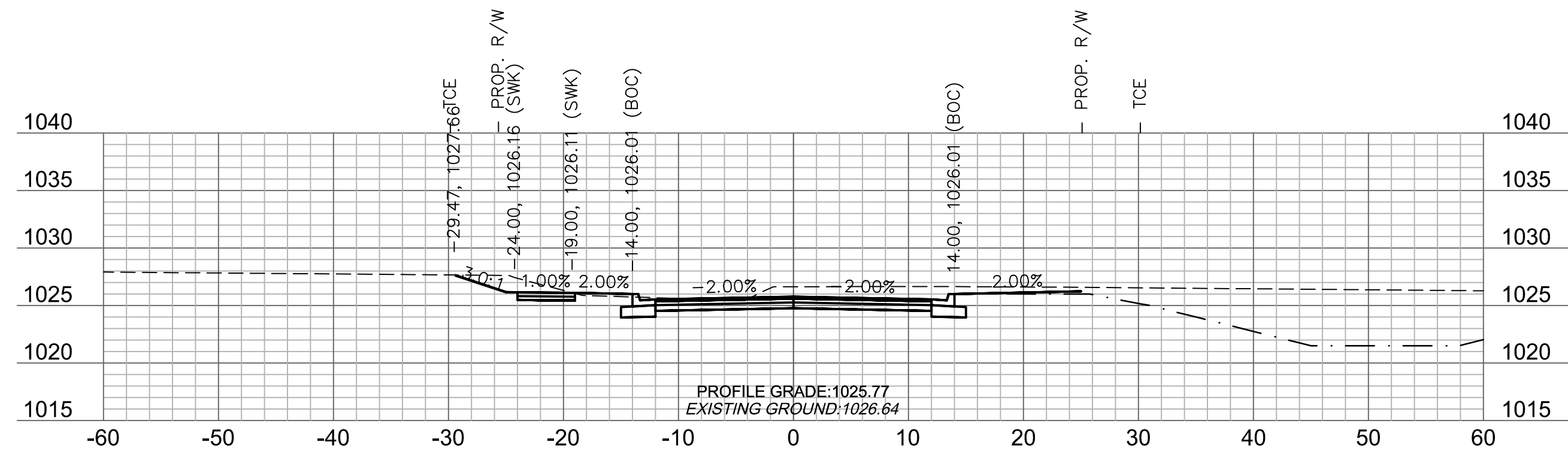
SHEET
T47 OF 70

GRADING (BY OTHERS)

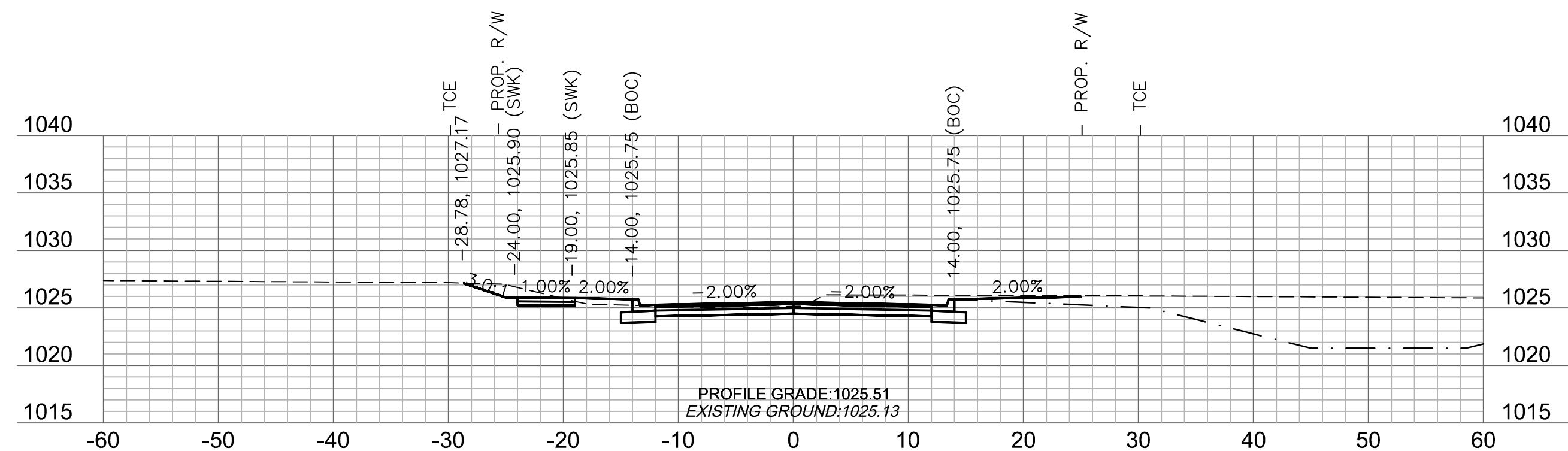
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 DATE: Jul 25, 2019 9:33am USER: ascavedra T_PTBULK_81450



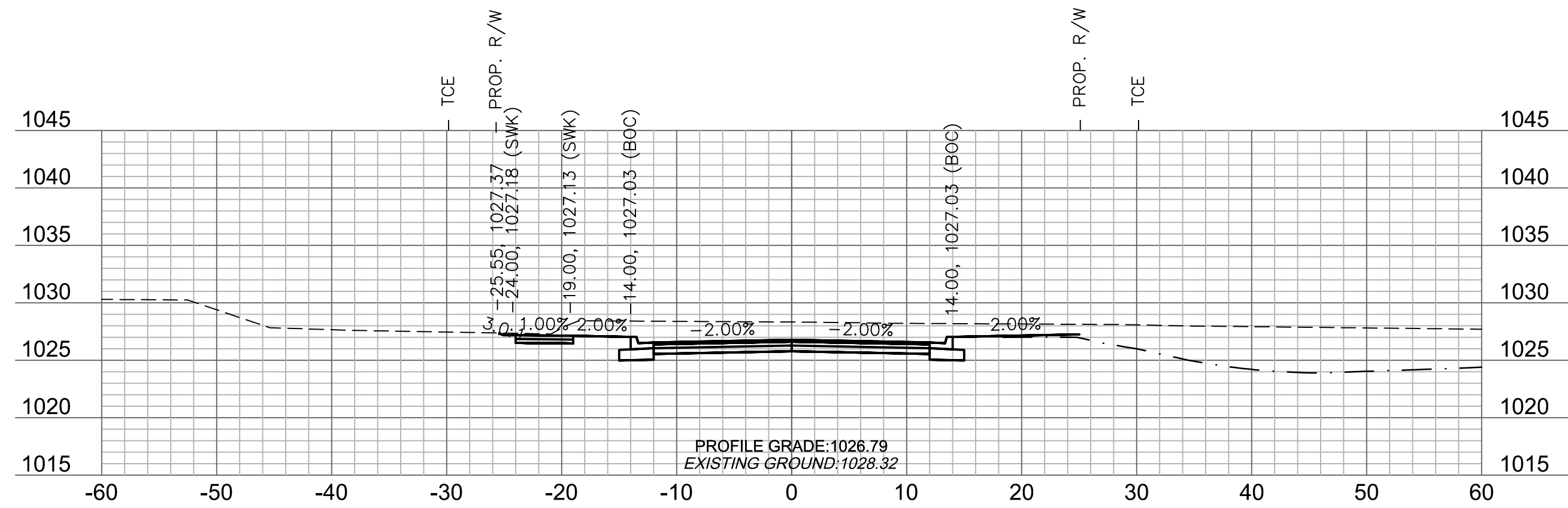
105+00



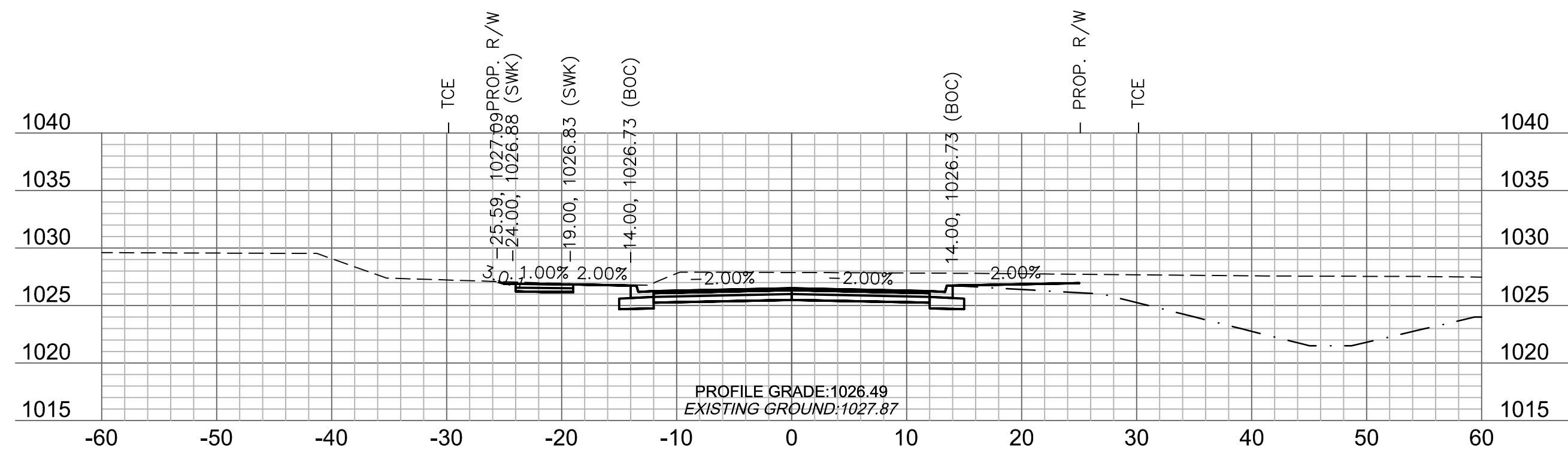
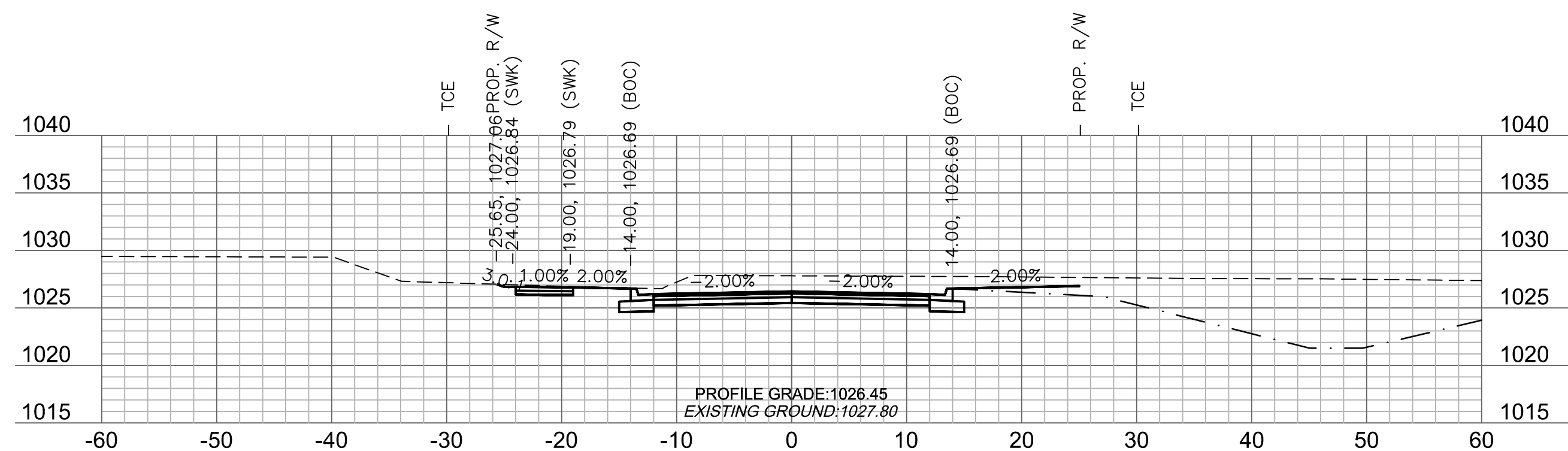
104+75



104+56.08



105+50

 $105 + 28.46$ 

105+25

**Accepted
Record Drawings**

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RECORD DRAWING



"NOT AS BUILT"

[illegible]

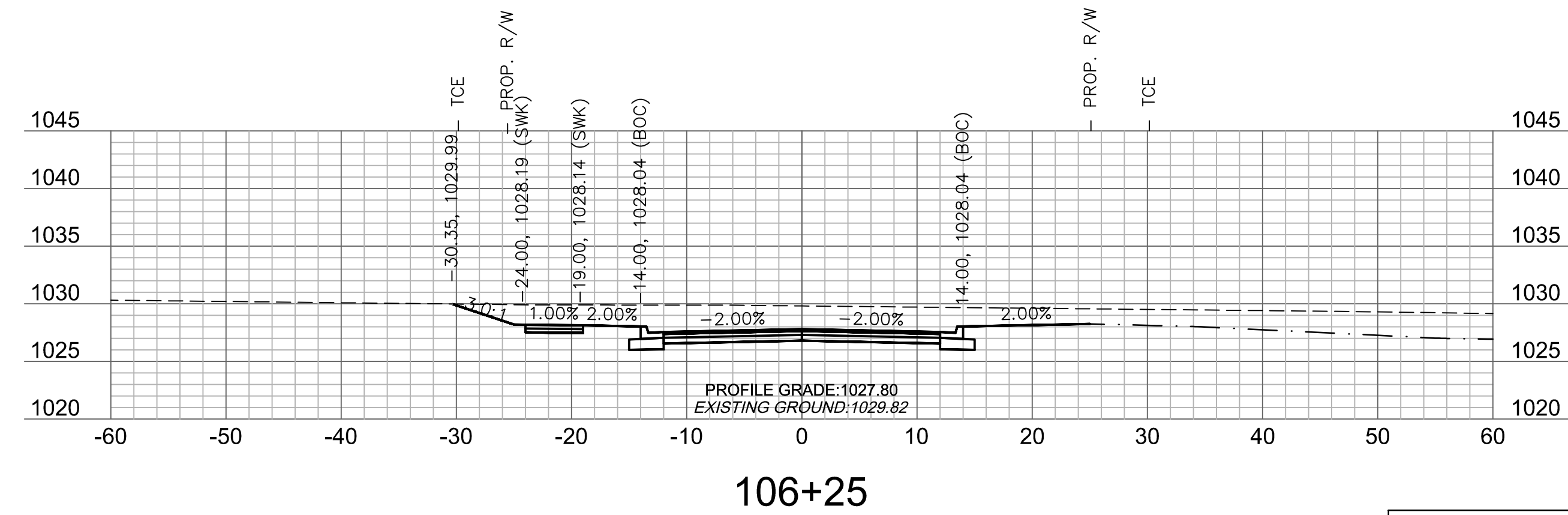
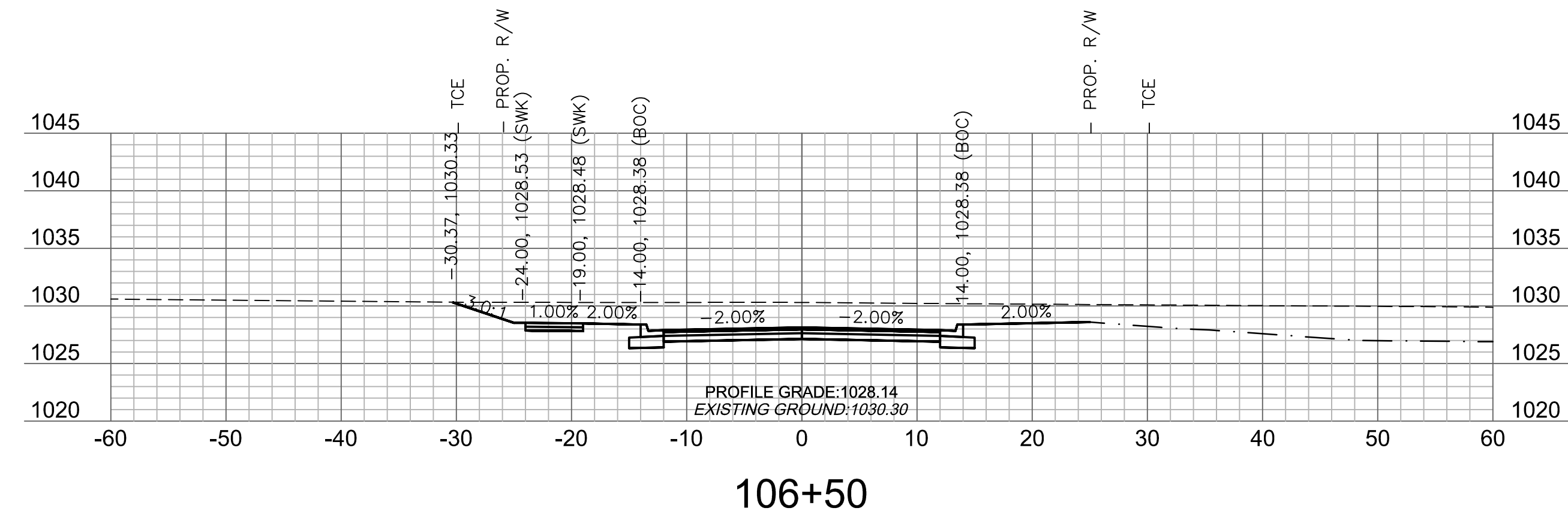
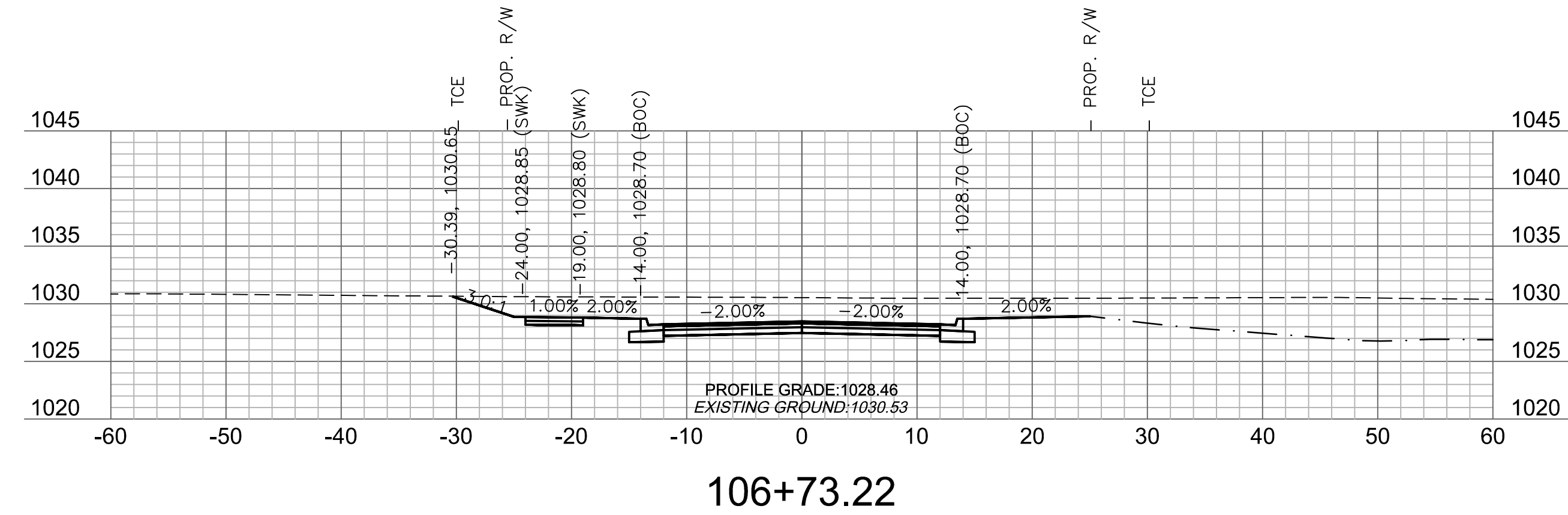
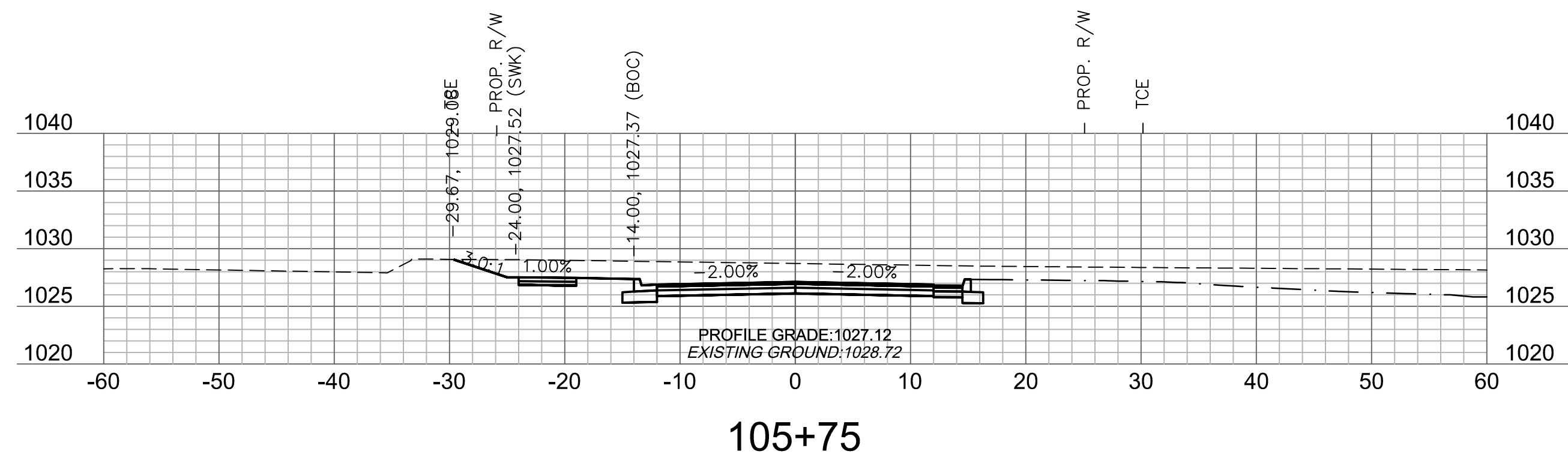
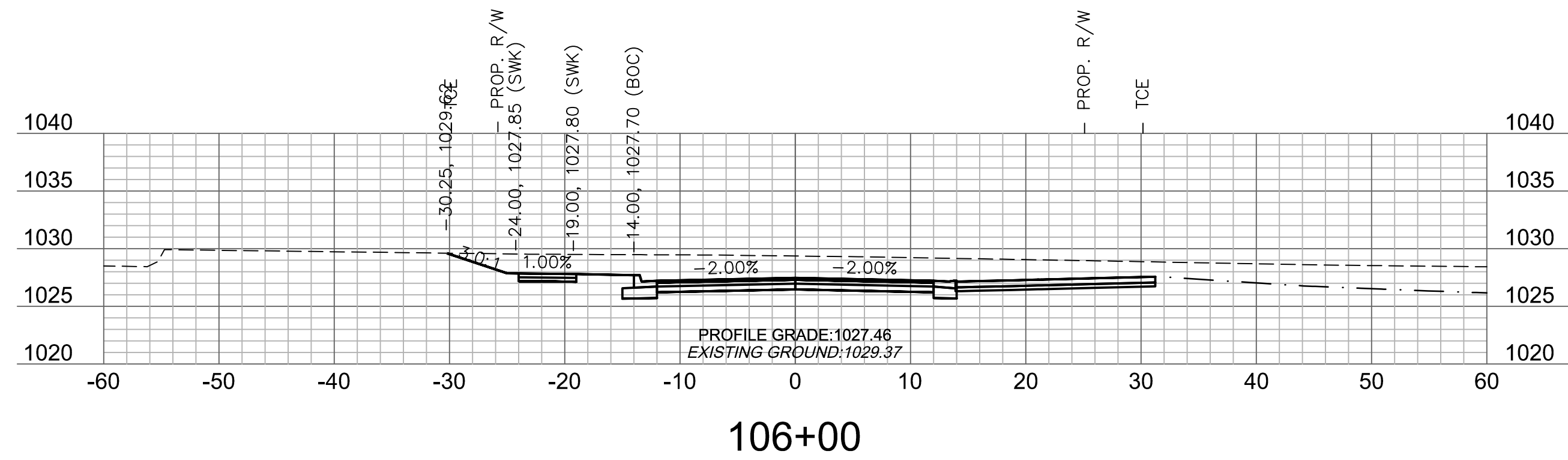
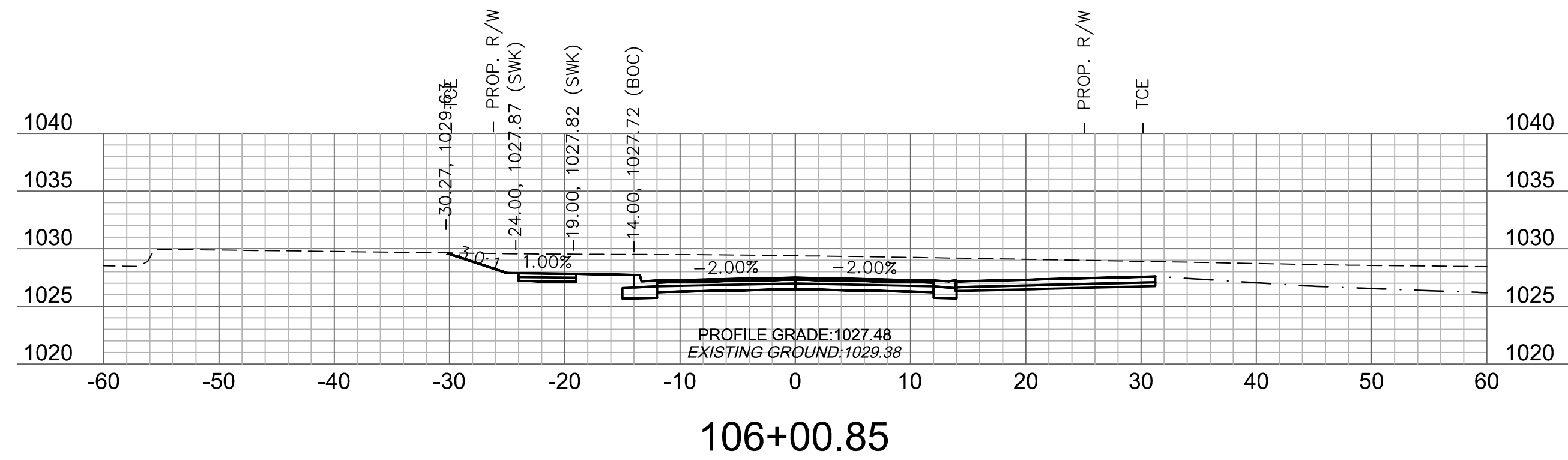
PRINCETON DRIVE CROSS SECTIONS	
O'REILLY DEVELOPMENT SENIOR LIVING FACILITY OLDHAM PARKWAY & PRINCETON DRIVE IMPROVEMENTS	
LEE'S SUMMIT, MISSOURI	2019

C.O.A. NO.: 001592
DRAWN BY: AS
CHECKED BY: JKL
APPROVED BY: RBF
QA/QC BY: JKL/RBF
PROJECT NO.: 018-1450
DWG NO.: T_PCORR_81450
DATE: 07.19.19

SHEET
T48 OF 70

	GRADING (BY OTHERS)
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DATE: Jul 25, 2019 9:38am XREFS: v_xbou_81450 V_TOPO_81450 T_PBASE_81450 C_PBASE_81450 T_PTBLK_81450
USER: asoaavedra



**Accepted
Record Drawings**

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Olsson

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Overland Park, KS 66213-4750 FAX 913.381.1174 www.olsson.com

RECORD DRAWING



"NOT AS BUILT"

[illegible]

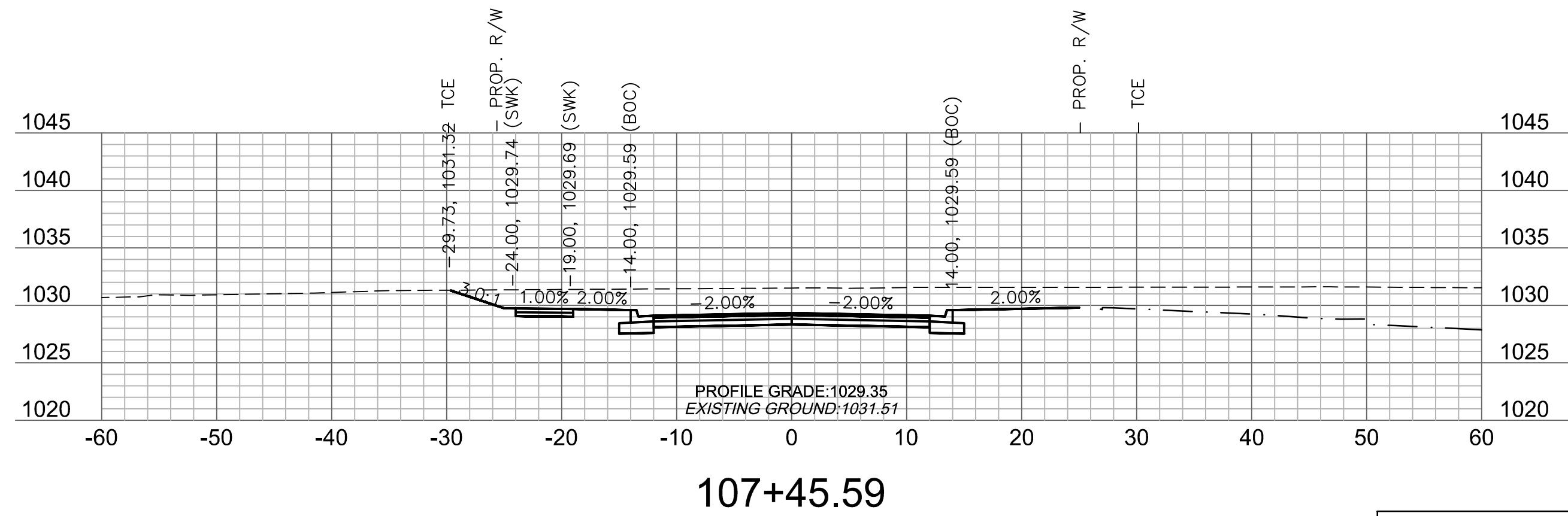
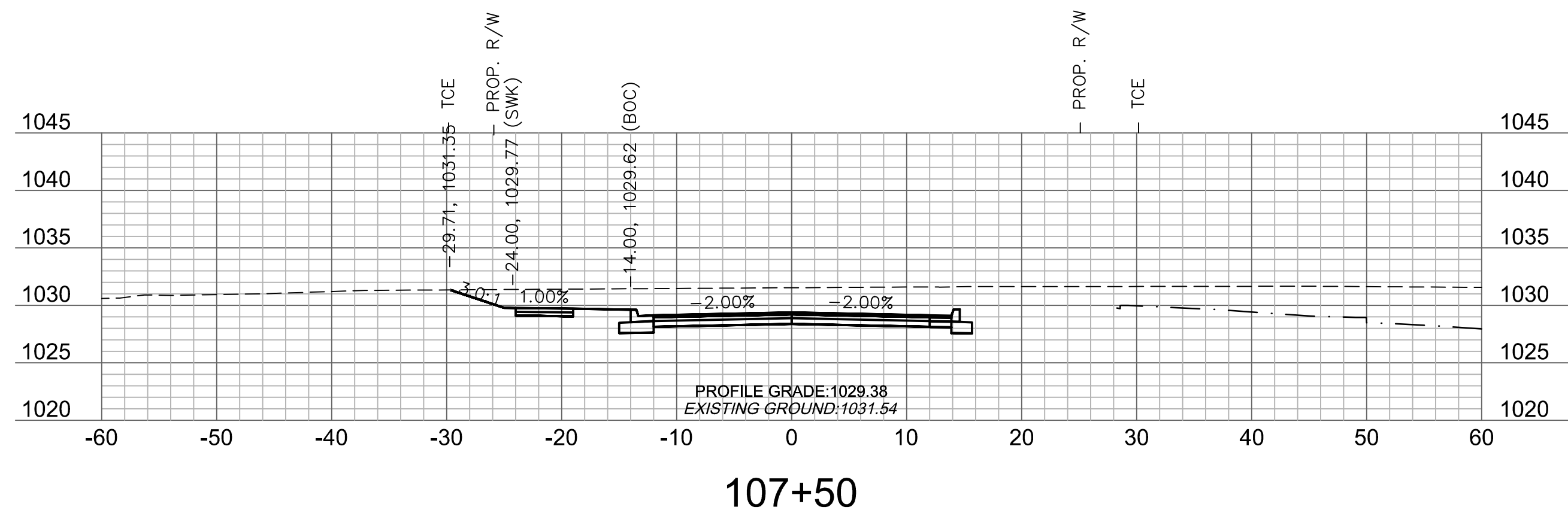
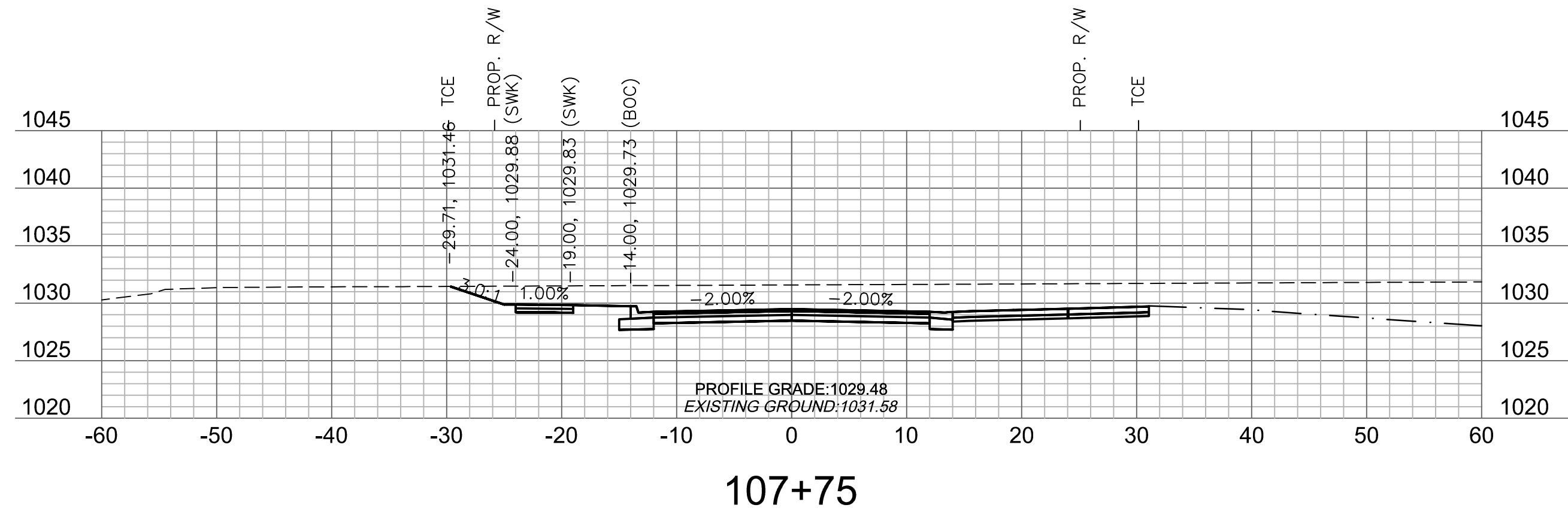
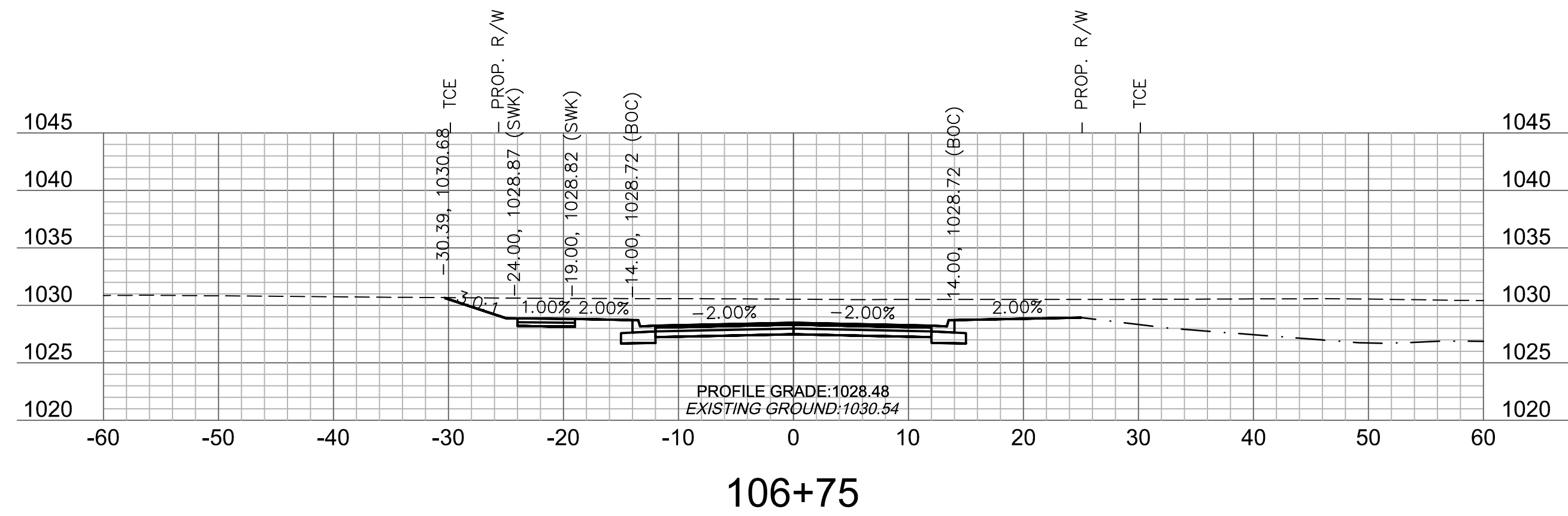
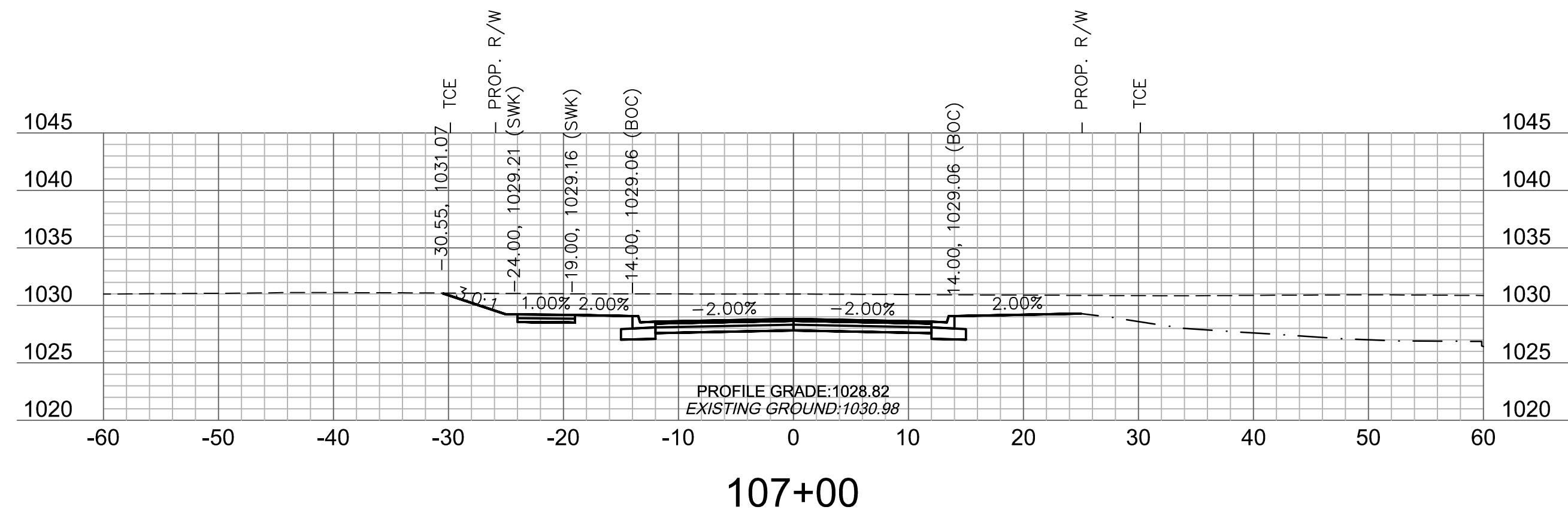
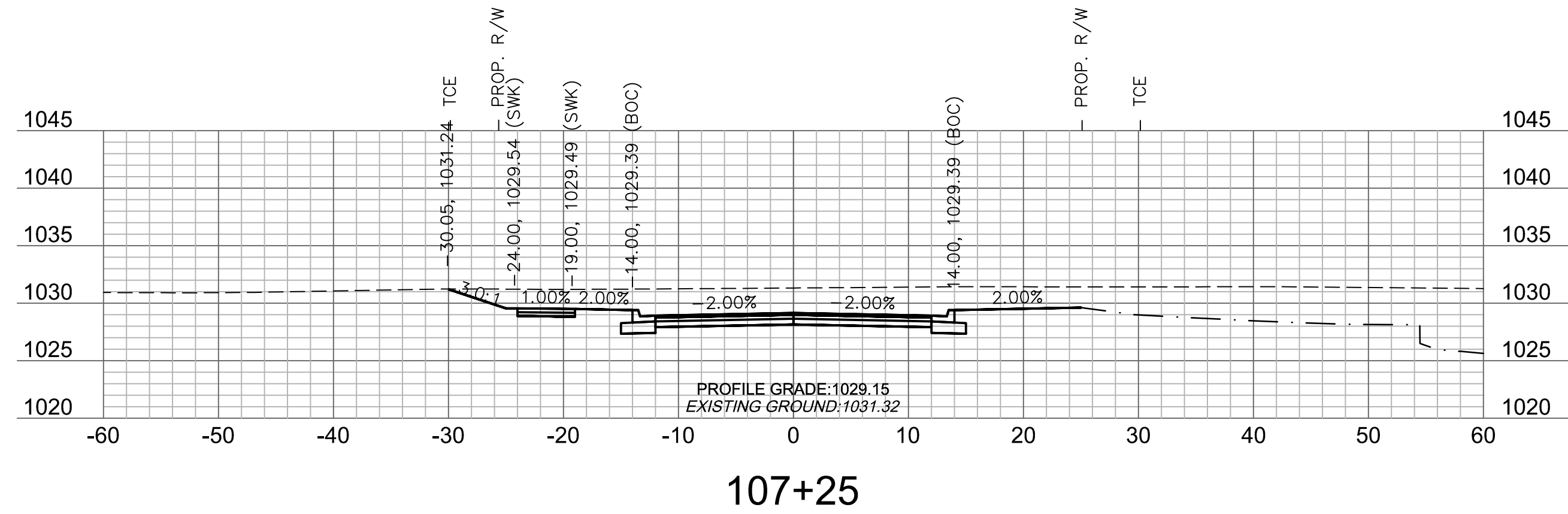
PRINCETON DRIVE CROSS SECTIONS	
OREILLY DEVELOPMENT SENIOR LIVING FACILITY OLDHAM PARKWAY & PRINCETON DRIVE IMPROVEMENTS	
LEE'S SUMMIT, MISSOURI	2019

C.O.A. NO.: 001592
DRAWN BY: AS
CHECKED BY: JKL
APPROVED BY: RBF
QA/QC BY: JKL/RBF
PROJECT NO.: 018-1450
DWG NO.: T_PCORR 81450
DATE: 07.19.19

SHEET
T49 OF 70

	GRADING (BY OTHERS)
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 XREFS: v_xbou_81450 V_TOPO_81450 T_PBASE_81450 C_PBASE_81450 T_PTBULK_81450
 DATE: Jul 25, 2019 9:33am USER: ascavedra



**Accepted
Record Drawings**

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olson

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Overland Park, KS 66213-4750 FAX 913.381.1174 www.olsson.com

RECORD DRAWING



"NOT AS BUILT"

[illegible]

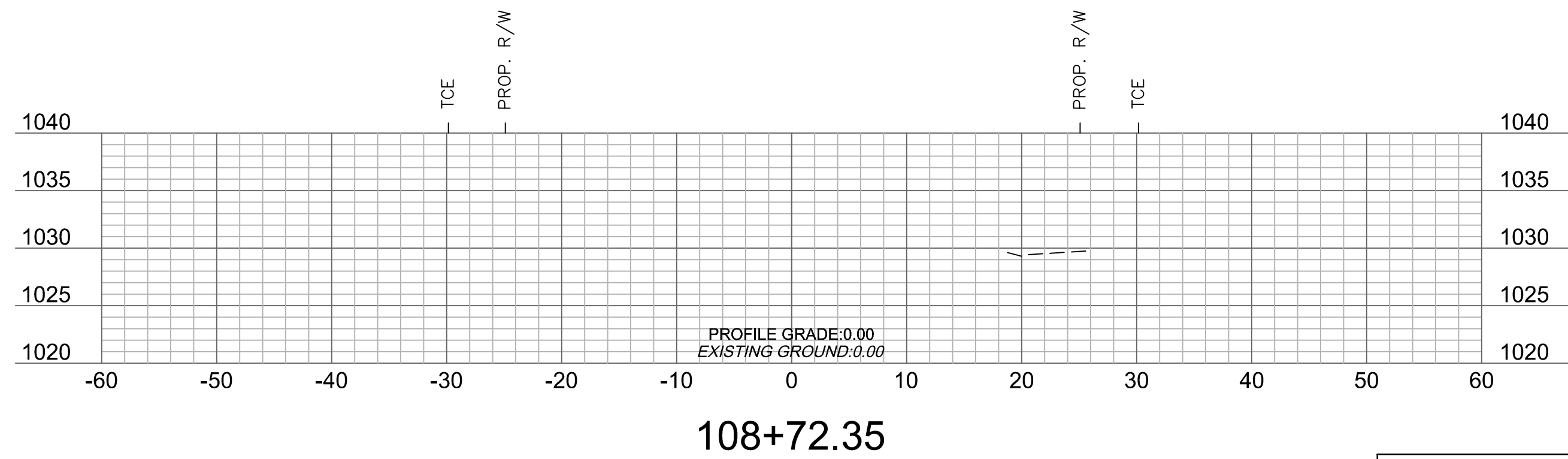
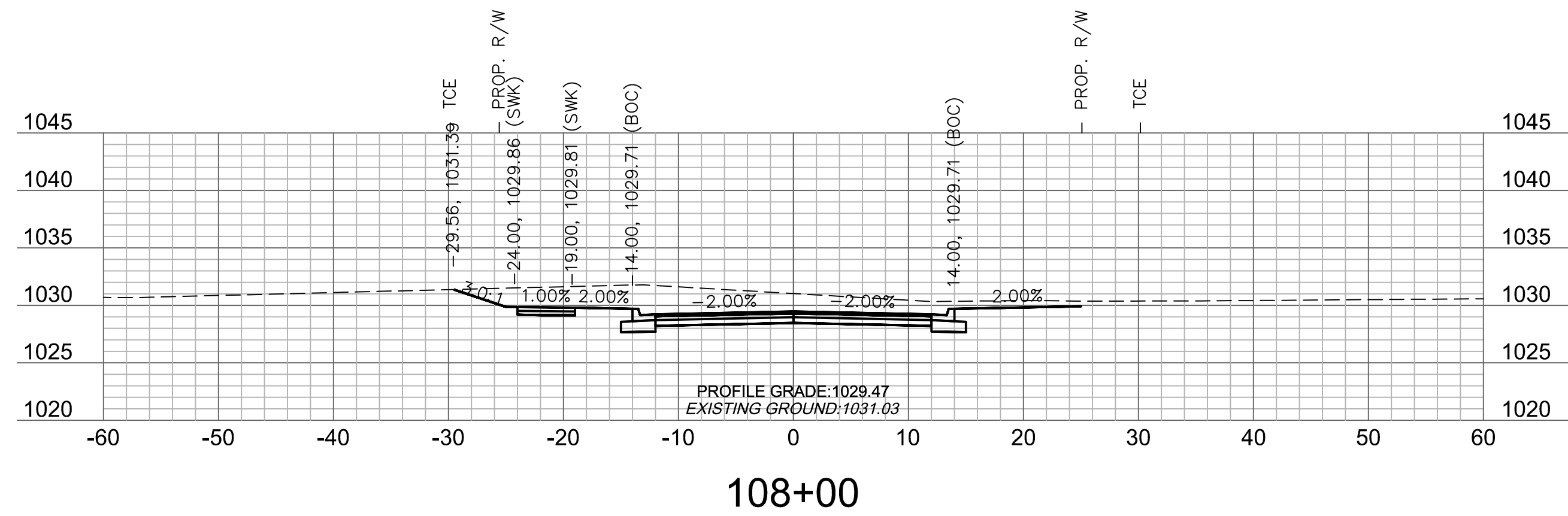
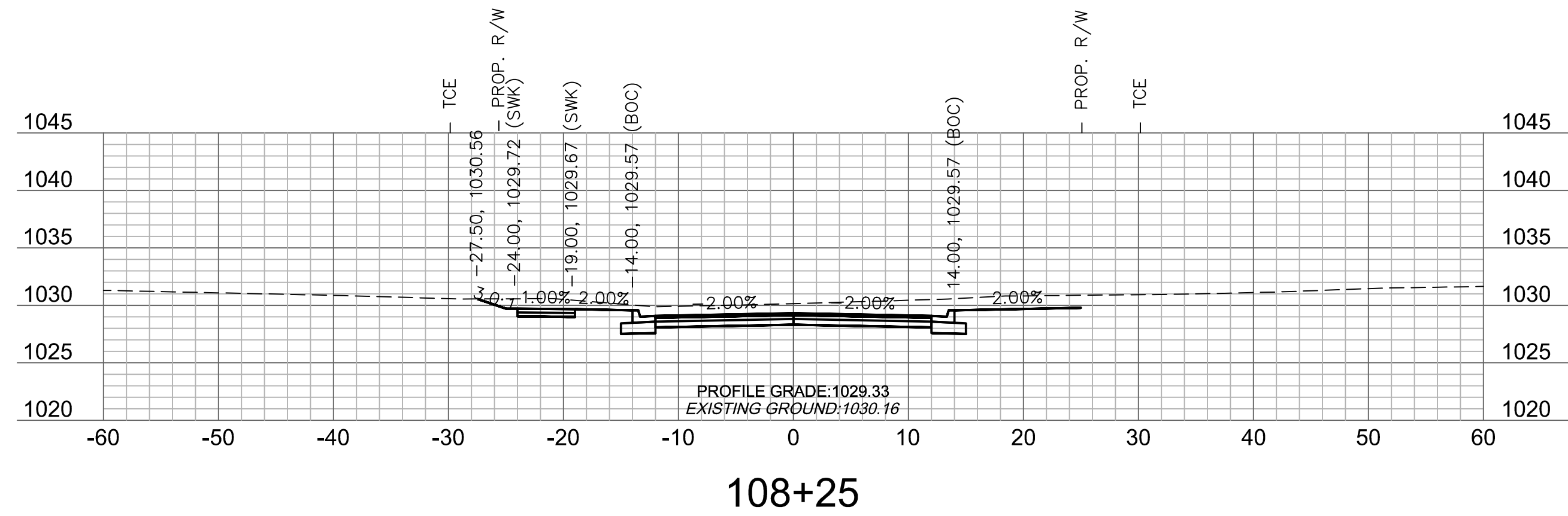
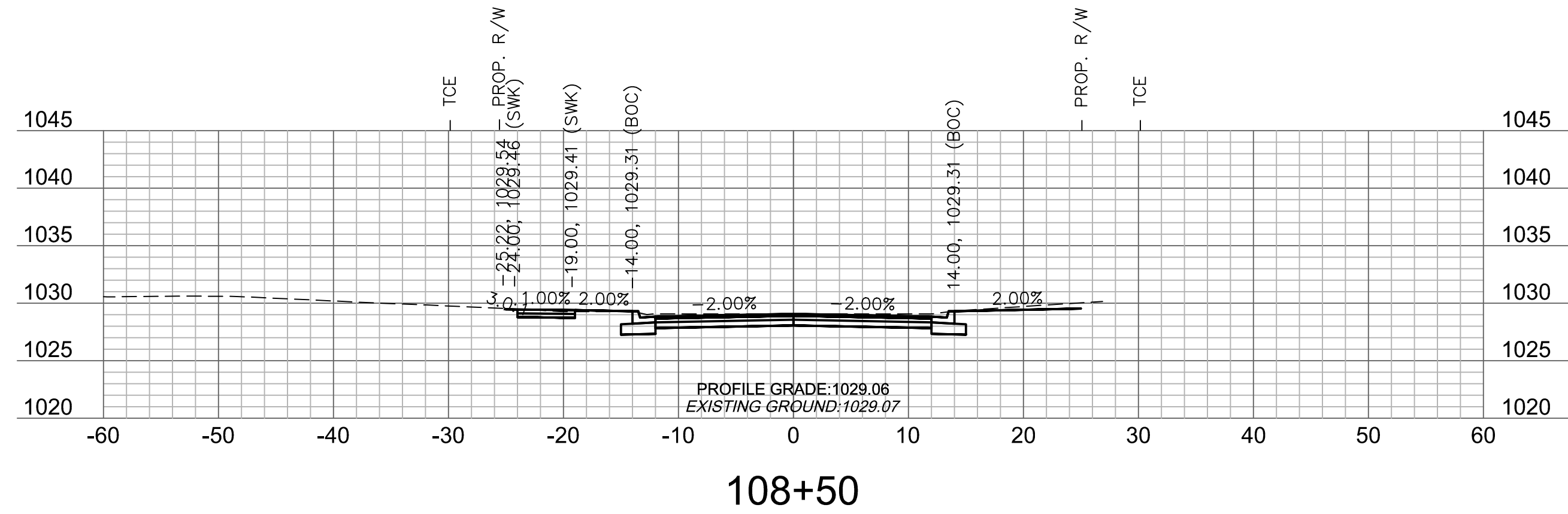
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OREILLY DEVELOPMENT SENIOR LIVING FACILITY OLDHAM PARKWAY & PRINCETON DRIVE IMPROVEMENTS	
LEE'S SUMMIT, MISSOURI	2019

C.O.A. NO.: 001592
DRAWN BY: AS
CHECKED BY: JKL
APPROVED BY: RBF
QA/QC BY: JKL/RBF
PROJECT NO.: 018-1450
DWG NO.: T_PCORR_81450
DATE: 07.19.19

SHEET
T50 OF 70

[illegible]

DWG: F:\2018\1001-1500\018-1450\40-Design\AutoCAD\Final Plans\Xref\T_PCORR_81450.dwg
 XREFS: v_xbou_81450 V_TOPO_81450 T_PBASE_81450 C_PBASE_81450 T_PTBULK_81450
 DATE: Jul 25, 2019 9:33am USER: ascavedra

[illegible]

**Accepted
Record Drawings**

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RECORD DRAWING



"NOT AS BUILT"

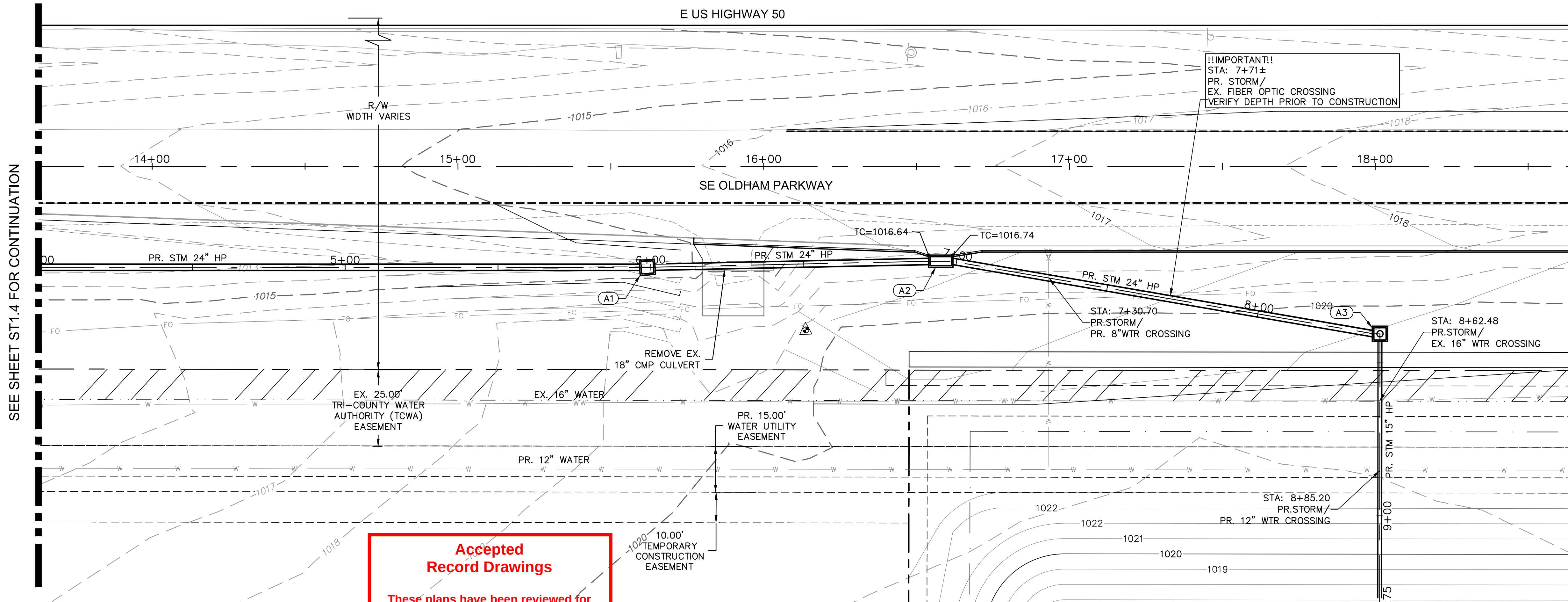
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PRINCETON DRIVE CROSS SECTIONS	
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LEE'S SUMMIT, MISSOURI	2019

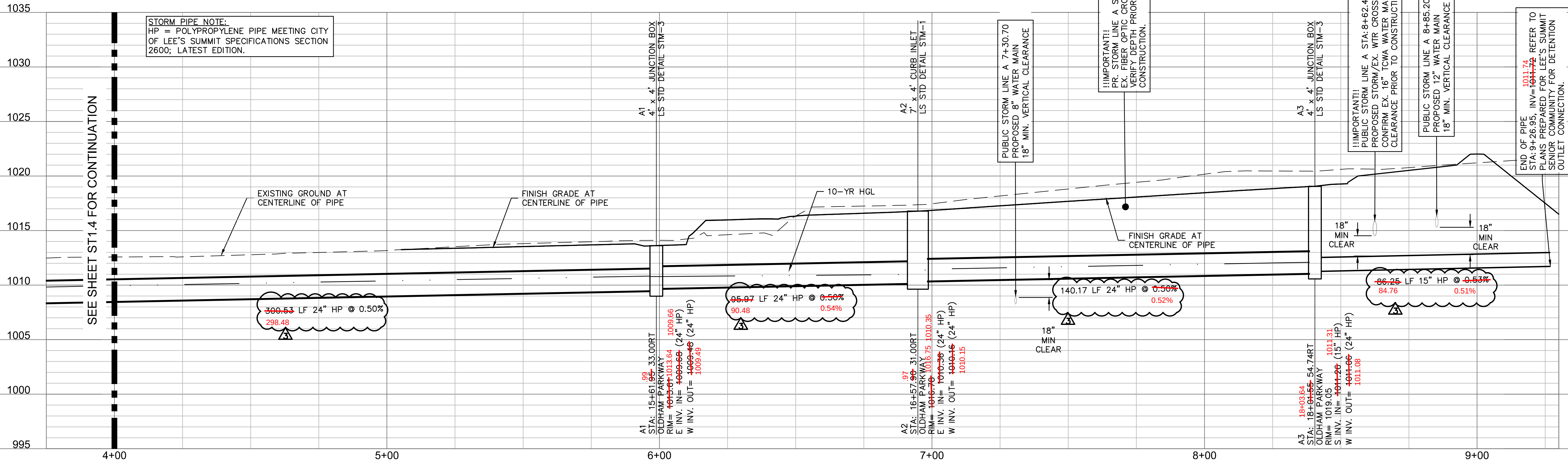
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CHECKED BY: JKL
APPROVED BY: RBF
QA/QC BY: JKL/RBF
PROJECT NO.: 018-1450
DWG NO.: T_PCORR_81450
DATE: 07.19.19

SHEET
T51 OF 70

DWG: F:\2018\1001-1500\018-1450-40-Design\AutoCAD\Final_Plans\Sheets\GNCV\PUBLIC_STORM\C_STM_PROF_81450.DWG
DATE: Jul 24, 2019 2:50pm XREFS: V_X80U_81450 C_PBASE_81450 T_PBASE_81450 USER: rjeppson



AS-BUILT
11/18/22



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Olsson Landscape Architecture MO State Cert. of Authority #20500285
550 St. Louis St.
Springfield, MO 65806
TEL 417.890.8802
www.olsson.com

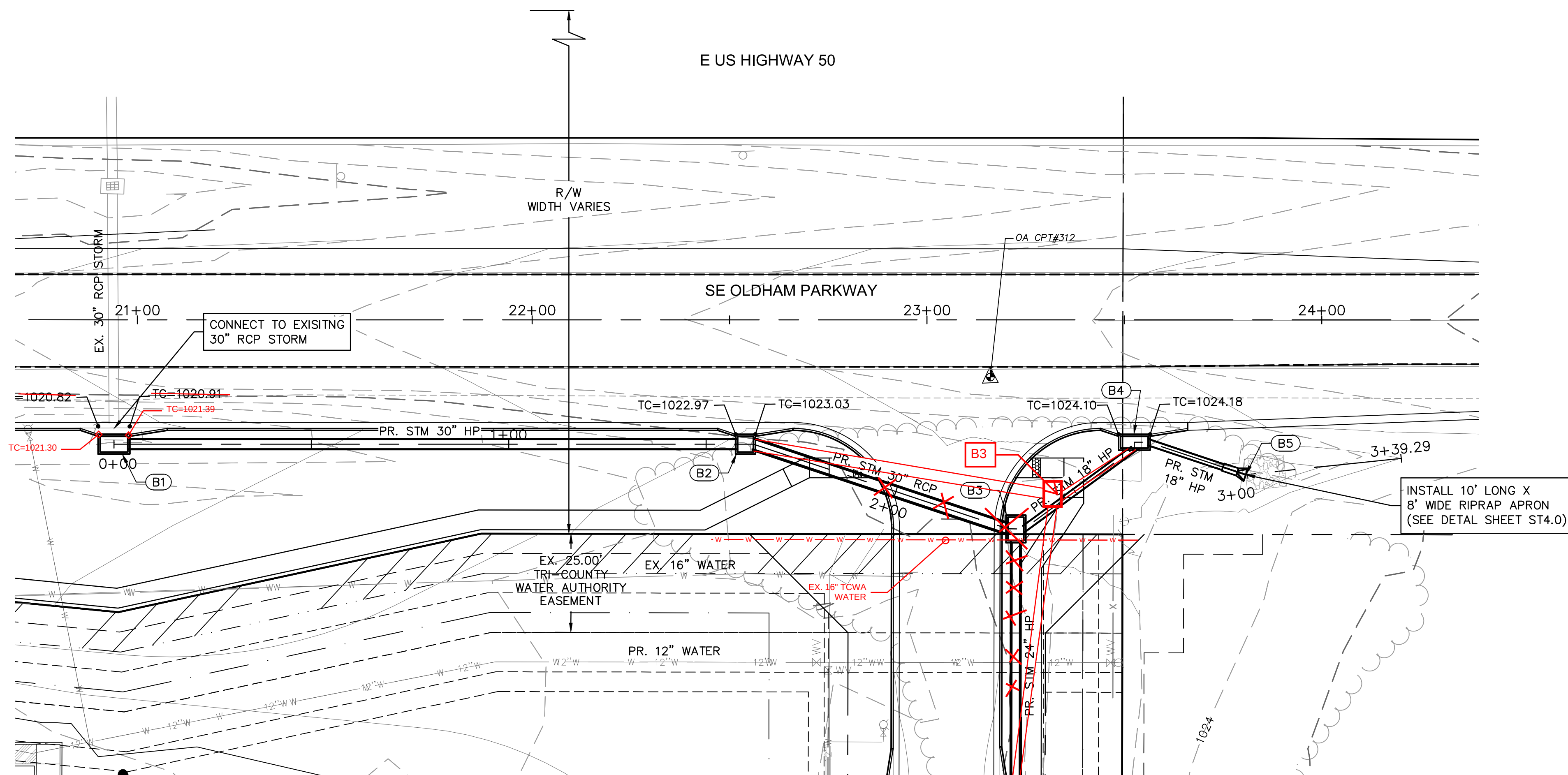
STATE OF MISSOURI
RYAN V. JEPSON
PROFESSIONAL ENGINEER
NUMBER
PE-2012024241
RYAN V. JEPSON
PROFESSIONAL ENGINEER
MO# PE-2012024241

REV.	NO.	DATE	REVISIONS DESCRIPTION
1	1	07/19/2019	ENGR. REVIEW COMMENTS
2	2	11/18/22	AS-BUILT

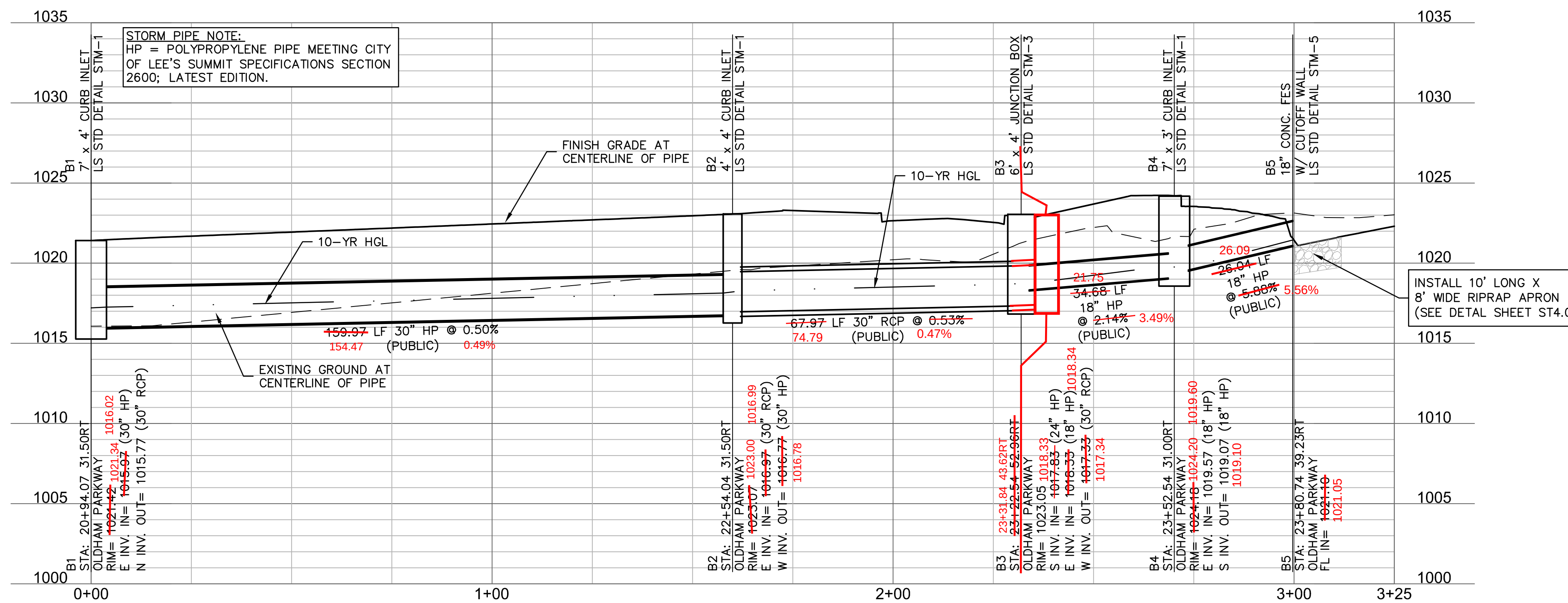
SE OLDHAM PARKWAY
PUBLIC STORM LINE A PLAN & PROFILE
THE PRINCETON SENIOR LIVING
SE OLDHAM PARKWAY
LEE'S SUMMIT, MISSOURI
2019

drawn by: RPL
designed by: RVL
checked by: JLR
project no.: 018-1450
drawing no.: C_STM_PROF_81450
date: 07.19.19

SHEET
ST1.0



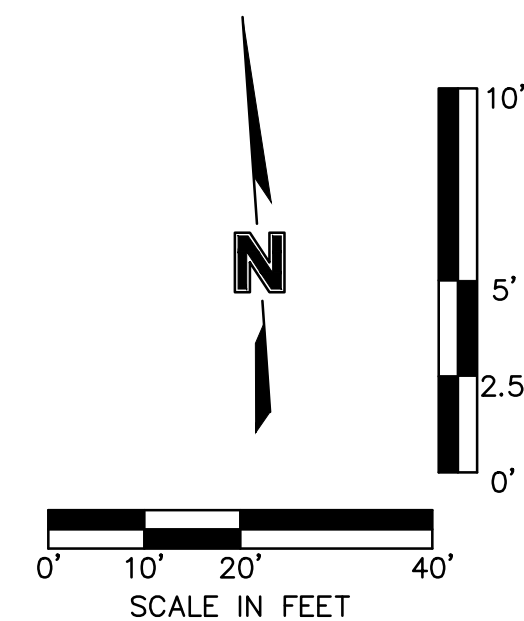
PUBLIC STORM LINE B

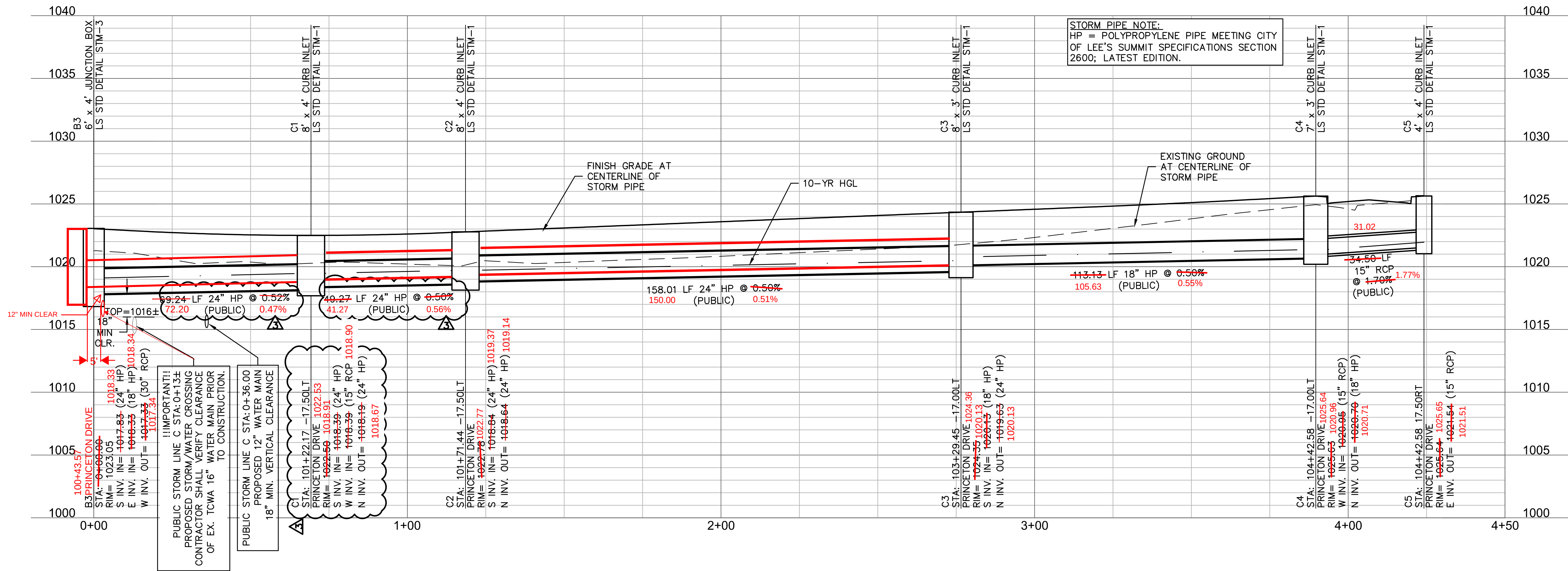
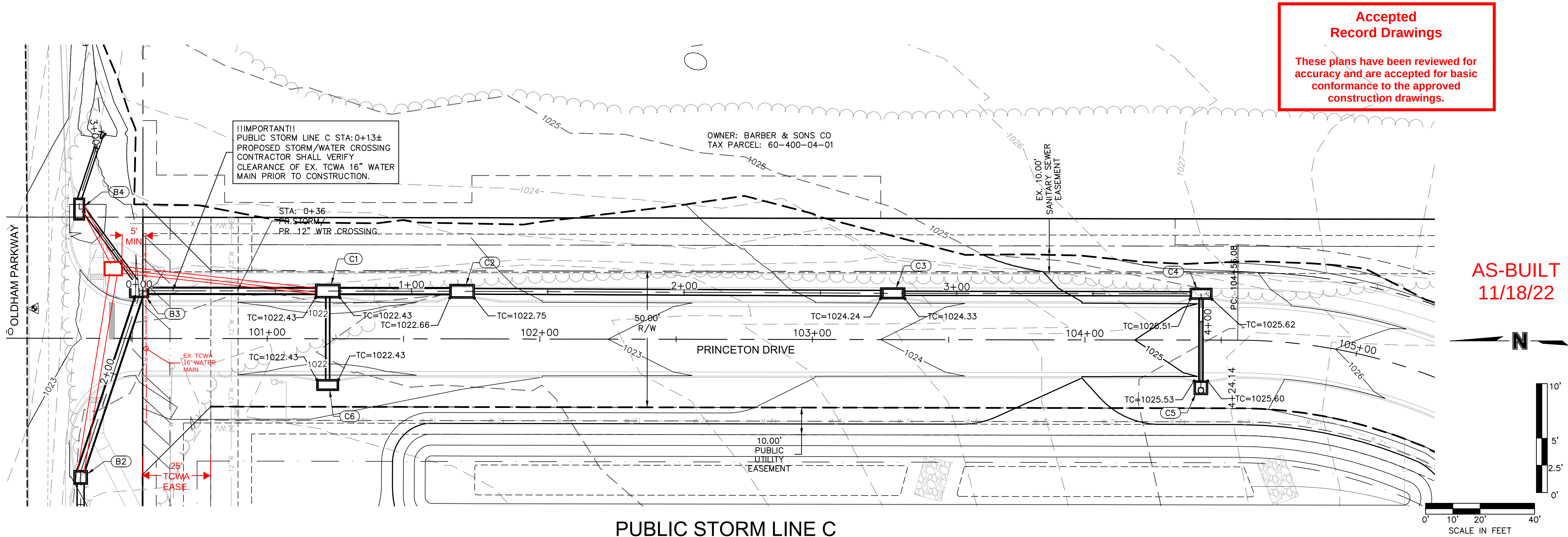


**Accepted
Record Drawings**

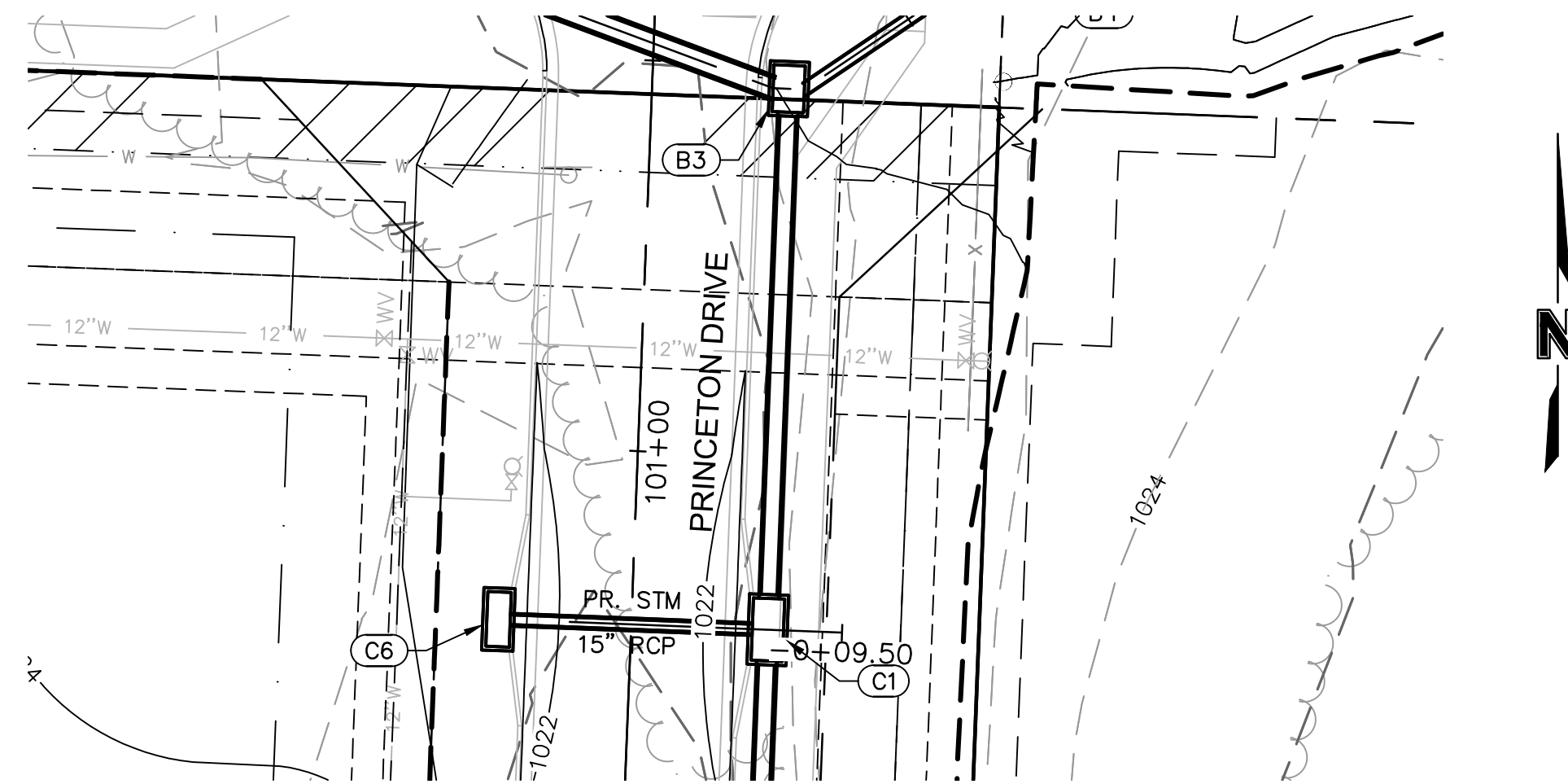
These plans have been reviewed for accuracy and are accepted for basic conformance to the approved construction drawings.

AS-BUILT
11/18/22

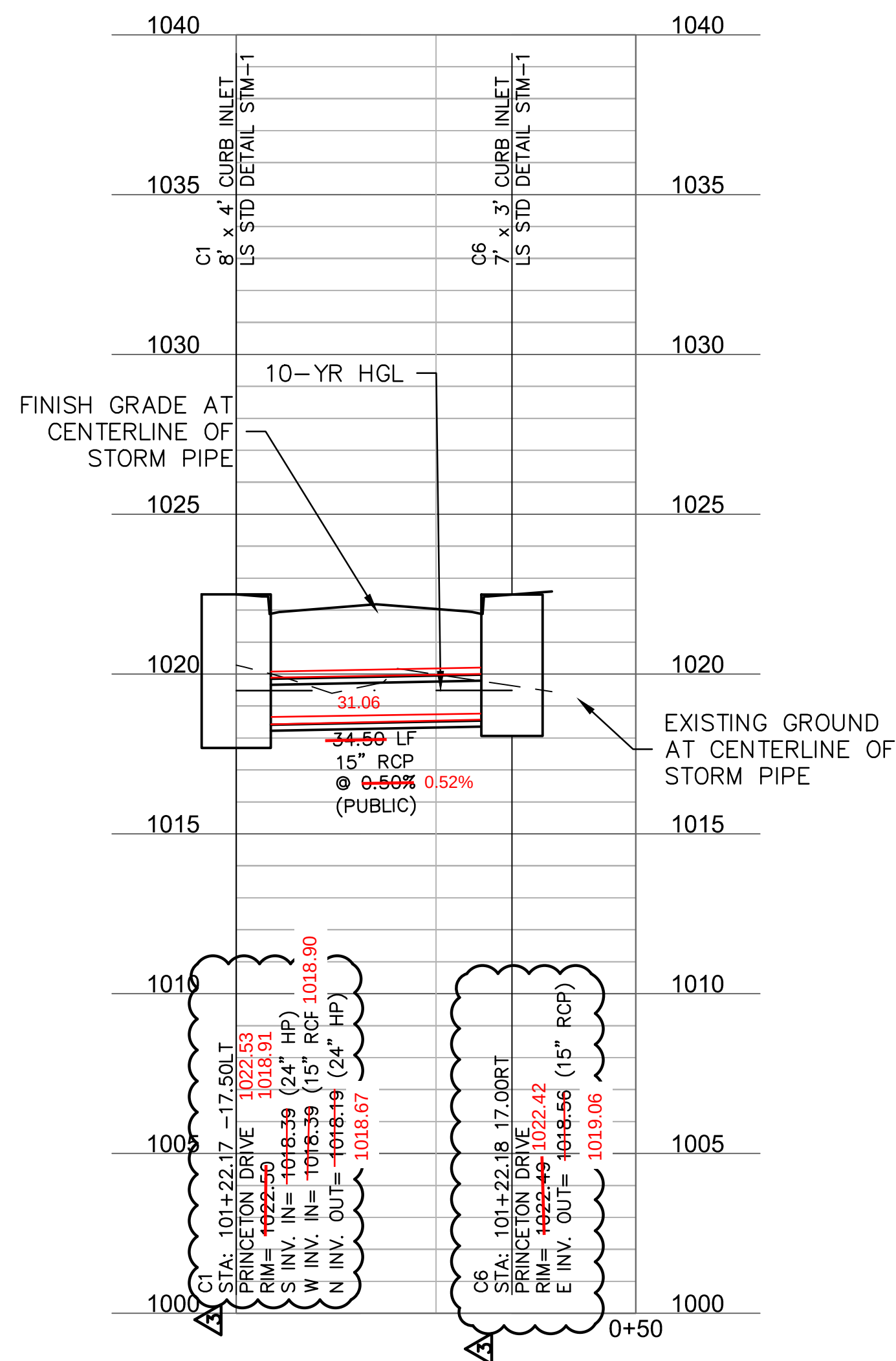




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DATE: Jul 24, 2019 3:00pm XREFS: V_XB0U_81450 V_TOPO_81450 C_PBASE_81450 T_PRASE_81450 C_TBLK_K22343_81450 USER: rjeppson



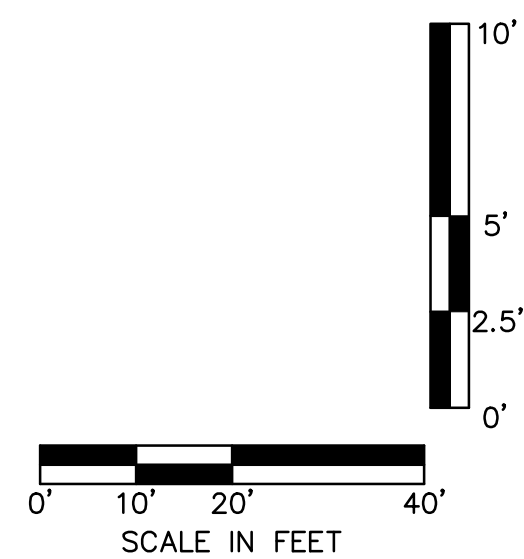
PUBLIC STORM LINE C6



**Accepted
Record Drawings**

These plans have been reviewed for accuracy and are accepted for basic conformance to the approved construction drawings.

AS-BUILT
11/18/22



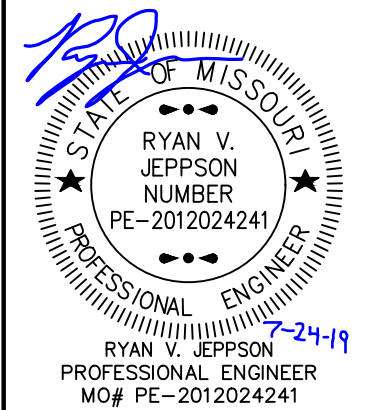
STORM PIPE NOTE:
HP = POLYPROPYLENE PIPE MEETING CITY
OF LEE'S SUMMIT SPECIFICATIONS SECTION
2600; LATEST EDITION.



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Springfield, MO 65806
TEL 417.890.8802 www.olsson.com

[illegible]

SE PRINCETON DRIVE PUBLIC STORM LINE C6	
THE PRINCETON SENIOR LIVING SE OLDHAM PARKWAY	
LEE'S SUMMIT, MISSOURI	2019

drawn by: _____ RPJ
designed by: _____ RVJ
checked by: _____ JLR
project no.: _____ 018-1450
drawing no.: C_STM_PROF_81450
date: _____ 07.19.19

SHEET
ST1.3

*FROM TABLE 10.1 FHWA HEC-14 PG. 10-18

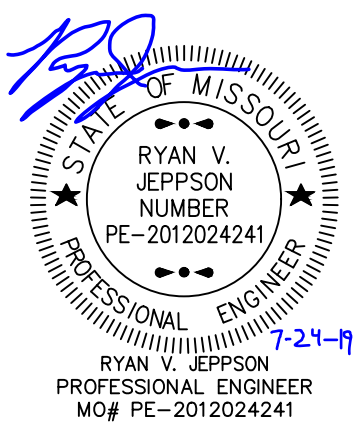


**Accepted
ord Drawings**



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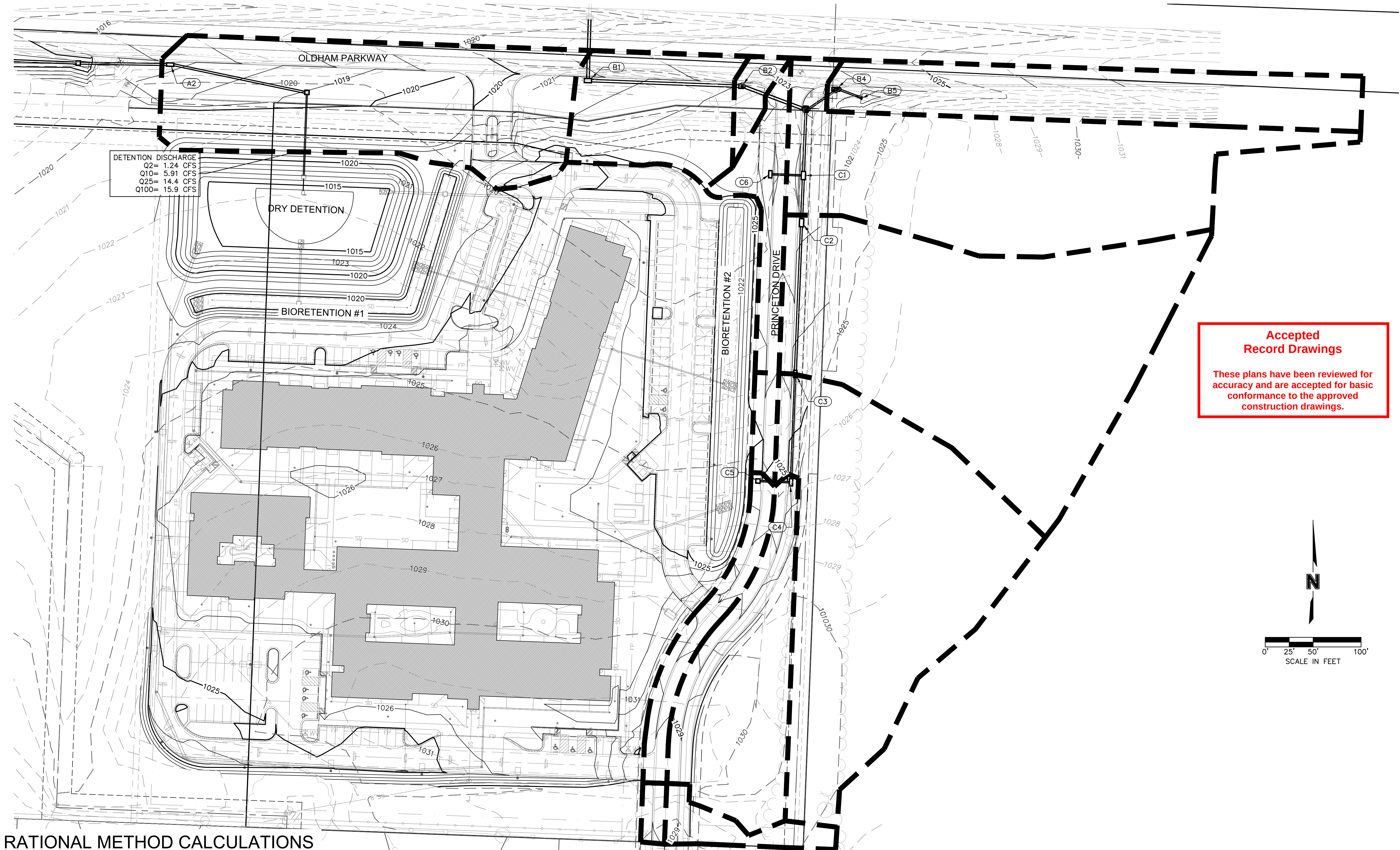


REVISIONS

LEE'S SUMMIT, MISSOURI

SHEET
ST1.4

DWG: F:\2018\1001-1500\018-1450\40-Design\AutoCAD\Final Plans\Sheets\GNCV\PUBLIC STORM\C_DRN_81450.DWG USER: rjeppson
DATE: Jul 24, 2019 3:05pm XREFS: C:\BULK_22x34_81450 t_pbase_81450 t_pstickmap_70830 v_xbou_81450 v_topo_81450 C_PBASE_81450



RATIONAL METHOD CALCULATIONS

INLET	DRAINAGE AREA (AC)	Pavement Area (AC) C=0.90	Open Space Area (AC) C=0.30	RUNOFF COEFFICIENT "C2" & "C10"	RUNOFF COEFFICIENT "C25" (1.1)	RUNOFF COEFFICIENT "C50" (1.20)	RUNOFF COEFFICIENT "C100" (1.25)	Time of Concentration "Tc" (min)	2-YEAR INTENSITY	10-YEAR INTENSITY	25-YEAR INTENSITY	50-YEAR INTENSITY	100-YEAR INTENSITY	Q2year (CFS)	Q10year (CFS)	Q25year (CFS)	Q50year (CFS)	Q100year (CFS)
A2 CURB INLET	1.21	0.43	0.78	0.51	0.56	0.62	0.64	5.00	5.41	7.35	8.53	9.40	10.32	3.36	4.57	5.83	7.00	8.02
B1 CURB INLET	0.47	0.12	0.35	0.45	0.49	0.54	0.56	5.00	5.41	7.35	8.53	9.40	10.32	1.14	1.55	1.97	2.37	2.71
B2 CURB INLET	0.08	0.03	0.05	0.54	0.59	0.65	0.68	5.00	5.41	7.35	8.53	9.40	10.32	0.23	0.32	0.41	0.49	0.56
B4 CURB INLET	0.52	0.29	0.23	0.64	0.70	0.77	0.80	5.00	5.41	7.35	8.53	9.40	10.32	1.80	2.44	3.11	3.74	4.28
B5 FES	0.19	0.10	0.09	0.63	0.69	0.75	0.78	5.00	5.41	7.35	8.53	9.40	10.32	0.64	0.87	1.11	1.34	1.53
C1 CURB INLET	1.42	0.09	1.33	0.34	0.37	0.41	0.42	15.00	3.72	5.18	6.01	6.70	7.36	1.79	2.49	3.18	3.87	4.43
C2 CURB INLET	1.93	0.07	1.86	0.32	0.36	0.39	0.40	15.00	3.72	5.18	6.01	6.70	7.36	2.32	3.23	4.12	5.01	5.73
C3 CURB INLET	1.67	0.05	1.62	0.32	0.35	0.38	0.40	15.00	3.72	5.18	6.01	6.70	7.36	1.97	2.74	3.50	4.26	4.87
C4 CURB INLET	0.66	0.15	0.51	0.44	0.48	0.53	0.55	5.00	5.41	7.35	8.53	9.40	10.32	1.57	2.13	2.72	3.27	3.74
C5 CURB INLET	0.23	0.13	0.10	0.63	0.69	0.76	0.79	5.00	5.41	7.35	8.53	9.40	10.32	0.78	1.07	1.36	1.64	1.87
C6 CURB INLET	0.26	0.14	0.12	0.62	0.68	0.75	0.78	5.00	5.41	7.35	8.53	9.40	10.32	0.88	1.19	1.52	1.82	2.09

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Springfield, MO 65806
TEL 417.890.8802
www.olsson.com

RECORD DRAWING

STATE OF MISSOURI
RYAN V. JEPSON
NUMBER
PE-2012024241
PROFESSIONAL ENGINEER
RYAN V. JEPSON
PROFESSIONAL ENGINEER
MO# PE-2012024241
"NOT AS BUILT"

24-19

SE OLDHAM PARKWAY & PRINCETON DRIVE
DRAINAGE AREA MAP

THE PRINCETON SENIOR LIVING
SE OLDHAM PARKWAY

LEE'S SUMMIT, MISSOURI

drawn by: RPL
designed by: RVL
checked by: JLR
project no.: 018-1450
drawing no.: C_DRN_81450
date: 07.19.19

REVISIONS

2019

SHEET
ST3.0

DWG: F:\2018\1001-1500\018-1450\40-Design\AutoCAD\Final_Plans\Sheets\GNVC\PUBLIC_STORM\C_CALC_81450.DWG
DATE: Jul 24, 2019 3:07pm USER: rjeppson

100-YEAR PUBLIC STORM SEWER HYDRAULIC CALCULATIONS

MyReport

Line No.	Line ID	Line Length	Line Size	val Pipe	Invert Dn	Invert Up	Line Slope	Gnd/Rim El Dn	Gnd/Rim El Up	HGL Dn	HGL Up	Vel Ave	Defl Ang	J-Loss Coeff	Minor Loss	Energy Loss	Known Q	Flow Rate
		(ft)	(in)		(ft)	(ft)	(%)	(ft)	(ft)	(ft)	(ft)	(ft/s)	(Deg)		(ft)	(ft)	(cfs)	(cfs)
1	EX 30-IN. RCP	81.411	30	0.013	1014.45	1015.77	2.15	0.00	1021.42	1015.74	1017.69	10.14	91.614	1.50 z	1.44	0.000	2.71	31.81
2	P-B2	159.969	30	0.012	1015.97	1016.77	0.50	1021.42	1023.07	1017.87	1018.67	7.26	-89.493	0.52	0.43	0.799	0.56	29.10
3	P-B3	67.970	30	0.013	1016.97	1017.33	0.53	1023.07	1023.05	1019.10	1019.37	6.53	17.292	0.96	0.66	0.321	0.00	28.54
4	P-C1	69.240	24	0.012	1017.83	1018.19	0.52	1023.05	1022.50	1020.03	1020.63	7.24	72.806	1.50	1.22	0.596	4.43	22.73
5	P-C2	49.270	24	0.012	1018.39	1018.64	0.51	1022.50	1022.78	1021.85	1022.06	5.16	0.524	0.50	0.21	0.216	5.73	16.21
6	C3	158.010	24	0.012	1018.84	1019.63	0.50	1022.78	1024.35	1022.27	1022.56	3.34	-0.523	0.50	0.09	0.289	4.87	10.48
7	P-C4	113.126	18	0.012	1020.13	1020.70	0.50	1024.35	1025.63	1022.65	1022.92	3.17	0.000	1.50	0.24	0.275	3.74	5.61
8	P-C5	34.500	15	0.013	1020.95	1021.54	1.71	1025.63	1025.64	1023.16	1023.19	1.52	90.000	1.00	0.04	0.029	1.87	1.87
9	P-B4	34.680	18	0.012	1018.33	1019.07	2.13	1023.05	1024.18	1020.03	1020.00 j	4.17	-53.320	1.09 z	n/a	0.136	4.28	5.81
10	P-B5	26.040	18	0.012	1019.57	1021.10	5.88	1024.18	1022.70	1020.00	1021.56	3.48	43.121	1.00 z	0.17	0.000	1.53	1.53
11	C6	34.500	15	0.013	1018.39	1018.56	0.49	1022.50	1022.49	1021.85	1021.88	1.70	90.004	1.00	0.05	0.036	2.09	2.09
12	P-A1	300.530	24	0.012	1007.98	1009.48	0.50	1010.98	1013.61	1009.98	1012.85	7.61	2.122	0.15	0.14	2.885	0.00	23.92
13	P-A2	95.970	24	0.012	1009.68	1010.16	0.50	1013.61	1016.78	1012.98	1013.90	7.61	0.000	0.63	0.57	0.915	8.02	23.92
14	P-A3	140.170	24	0.012	1010.36	1011.06	0.50	1016.78	1019.05	1014.46	1015.05	5.06	21.462	0.94	0.37	0.590	0.00	15.90
Project File: PUBLIC STORM 100-YR.stm											Number of lines: 14				Date: 7/24/2019			
NOTES: ** Critical depth																		

Storm Sewers

100-YEAR PUBLIC STORM SEWER INLET CALCULATIONS

Inlet Report

Line No	Inlet ID	Q = CIA	Q carry	Q capt	Q Byp	Junc Type	Curb Inlet		Grate Inlet			Gutter							Inlet			Byp Line No
		(cfs)	(cfs)	(cfs)	(cfs)		Ht (in)	L (ft)	Area (sqft)	L (ft)	W (ft)	So (ft/ft)	W (ft)	Sw (ft/ft)	Sx (ft/ft)	n	Depth (ft)	Spread (ft)	Depth (ft)	Spread (ft)	Depr (in)	
1	B1	2.71*	0.00	2.70	0.01	Curb	0.5	7.00	0.00	0.00	0.010	1.33	0.039	0.020	0.013	0.22	9.55	0.82	0.78	9.5	13	
2	B2	0.56*	0.00	0.56	0.00	Curb	0.5	4.00	0.00	0.00	0.010	1.33	0.039	0.020	0.013	0.13	5.11	0.79	0.00	9.5	1	
3	B3	0.00	0.00	0.00	0.00	MH	0.0	0.00	0.00	0.00	Sag	0.00	0.000	0.000	0.013	0.00	0.00	0.00	0.00	0.0	Off	
4	C1	4.43*	1.35	5.78	0.00	Curb	0.5	6.40	0.00	0.00	Sag	1.33	0.039	0.020	0.013	0.46	21.67	1.25	21.67	9.5	Off	
5	C2	5.73*	0.49	5.30	0.92	Curb	0.5	8.00	0.00	0.00	0.010	1.33	0.039	0.020	0.013	0.29	13.13	0.94	6.24	9.5	4	
6	C3	4.87*	0.32	4.71	0.49	Curb	0.5	8.00	0.00	0.00	0.010	1.33	0.039	0.020	0.013	0.27	12.26	0.91	4.82	9.5	5	
7	C4	3.74*	0.00	3.42	0.32	Curb	0.5	7.00	0.00	0.00	0.013	1.33	0.039	0.020	0.013	0.23	10.28	0.89	3.83	9.5	6	
8	C5	1.87*	0.00	1.59	0.28	Curb	0.5	4.00	0.00	0.00	0.013	1.33	0.039	0.020	0.013	0.18	7.86	0.89	3.59	9.5	11	
9	B4	4.28*	0.00	3.85	0.43	Curb	0.5	7.00	0.00	0.00	0.010	1.33	0.039	0.020	0.013	0.25	11.38	0.91	4.57	9.5	4	
10	B5	1.53*	0.00	1.53	0.00	Hdwl	0.0	0.00	0.00	0.00	Sag	0.00	0.000	0.000	0.013	0.00	0.00	0.00	0.00	0.0	Off	
11	C6	2.09*	0.28	2.37	0.00	Curb	0.5	5.60	0.00	0.00	Sag	1.33	0.039	0.020	0.013	0.28	12.76	1.07	12.76	9.5	Off	
12	A1	0.00	0.00	0.00	0.00	MH	0.0	0.00	0.00	0.00	Sag	0.00	0.000	0.000	0.013	0.00	0.00	0.00	0.00	0.0	Off	
13	A2	8.02*	0.01	5.64	2.39	Curb	0.5	7.00	0.00	0.00	0.010	1.33	0.039	0.020	0.013	0.31	14.47	1.00	9.10	9.5	Off	
14	A3	0.00	15.90	0.00	15.90	MH	0.0	0.00	0.00	0.00	Sag	0.00	0.000	0.000	0.013	0.00	0.00	0.00	0.00	0.0	Off	
Project File: PUBLIC STORM 100-YR.stm													Number of lines: 14					Run Date: 7/24/2019				
NOTES: Inlet N-Values = 0.016; Known Qs only; * Indicates Known Q added. All curb inlets are throat.																						

Storm Sewers v12.09

10-YEAR PUBLIC STORM SEWER HYDRAULIC CALCULATIONS

MyReport

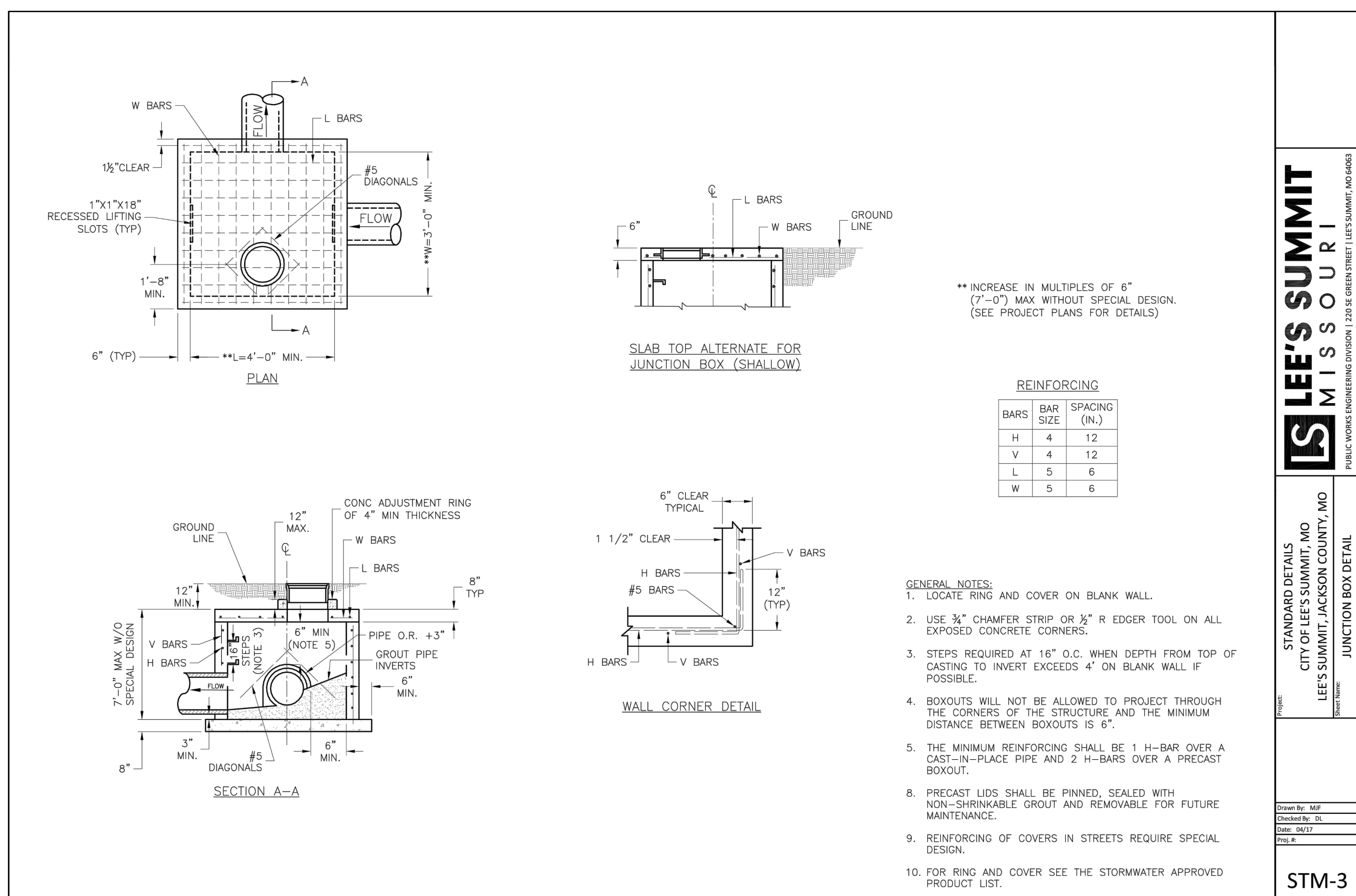
Line No.	Line ID	Line Length	Line Size	n-val Pipe	Invert Dn	Invert Up	Line Slope	Gnd/Rim El Dn	Gnd/Rim El Up	HGL Dn	HGL Up	Vel Ave	Defl Ang	J-Loss Coeff	Minor Loss	Energy Loss	Known Q	Flow Rate
		(ft)	(in)		(ft)	(ft)	(%)	(ft)	(ft)	(ft)	(ft/s)	(Deg)		(ft)	(ft)	(cfs)	(cfs)	
1	EX 30-IN. RCP	81.411	30	0.013	1014.45	1015.77	2.15	0.00	1021.42	1015.39	1017.21	8.43	91.614	1.50 z	0.89	0.000	1.55	18.03
2	P-B2	159.969	30	0.012	1015.97	1016.77	0.50	1021.42	1023.07	1017.26	1018.14	6.23	-89.493	0.52 z	0.29	0.000	0.32	16.48
3	P-B3	67.970	30	0.013	1016.97	1017.33	0.53	1023.07	1023.05	1018.28	1018.69	6.07	17.292	0.96 z	n/a	0.000	0.00	16.16
4	P-C1	69.240	24	0.012	1017.83	1018.19	0.52	1023.05	1022.50	1019.10	1019.48	6.07	72.806	1.50 z	0.84	0.000	2.49	12.85
5	P-C2	49.270	24	0.012	1018.39	1018.64	0.51	1022.50	1022.78	1019.48	1019.72 j	5.27	0.524	0.50 z	n/a	0.000	3.23	9.17
6	C3	158.010	24	0.012	1018.84	1019.63	0.50	1022.78	1024.35	1019.72	1020.49 j	4.52	-0.523	0.50 z	n/a	0.000	2.74	5.94
7	P-C4	113.126	18	0.012	1020.13	1020.70	0.50	1024.35	1025.63	1020.79	1021.38	4.20	0.000	1.50 z	n/a	0.000	2.13	3.20
8	P-C5	34.500	15	0.013	1020.95	1021.54	1.71	1025.63	1025.64	1021.38	1021.95 j	2.97	90.000	1.00 z	n/a	0.000	1.07	1.07
9	P-B4	34.680	18	0.012	1018.33	1019.07	2.13	1023.05	1024.18	1018.78	1019.76	5.74	-53.320	1.09 z	n/a	0.000	2.44	3.31
10	P-B5	26.040	18	0.012	1019.57	1021.10	5.88	1024.18	1022.70	1019.76	1021.45	4.68	43.121	1.00 z	n/a	0.000	0.87	0.87
11	C6	34.500	15	0.013	1018.39	1018.56	0.49	1022.50	1022.49	1019.48	1019.49	1.14	90.004	1.00	0.02	0.013	1.19	1.19
12	P-A1	300.530	24	0.012	1007.98	1009.48	0.50	1010.98	1013.61	1009.27	1010.64 j	5.22	2.122	0.15 z	n/a	0.000	0.00	10.48
13	P-A2	95.970	24	0.012	1009.68	1010.16	0.50	1013.61	1016.78	1010.80	1011.32	5.66	0.000	0.63 z	0.30	0.000	4.57	10.48
14	P-A3	140.170	24	0.012	1010.36	1011.06	0.50	1016.78	1019.05	1011.32	1011.92 j	4.28	21.462	0.94 z	n/a	0.000	0.00	5.91
Project File: PUBLIC STORM 10-YR.stm											Number of lines: 14				Date: 7/24/2019			
NOTES: ** Critical depth																		

Storm Sewers

10-YEAR PUBLIC STORM SEWER INLET CALCULATIONS

Inlet Report

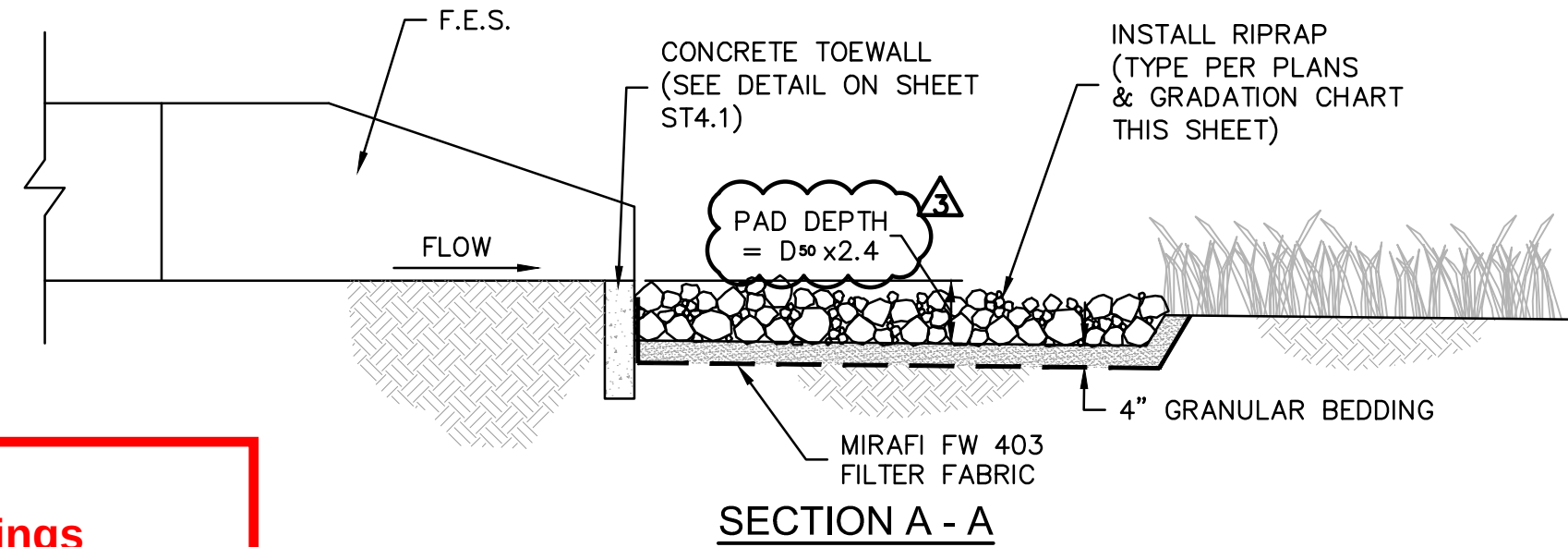
Line No	Inlet ID	Q = CIA	Q carry	Q capt	Q Byp	Junc Type	Curb Inlet		Grate Inlet				Gutter						Inlet			Byp Line No
		(cfs)	(cfs)	(cfs)	(cfs)		Ht (in)	L (ft)	Area (sqft)	L (ft)	W (ft)	So (ft/ft)	W (ft)	Sw (ft/ft)	Sx (ft/ft)	n	Depth (ft)	Spread (ft)	Depth (ft)	Spread (ft)	Depr (in)	
1	B1	1.55*	0.00	1.55	0.00	Curb	0.5	7.00	0.00	0.00	0.00	0.010	1.33	0.039	0.020	0.013	0.18	7.68	0.79	0.00	9.5	13
2	B2	0.32*	0.00	0.32	0.00	Curb	0.5	4.00	0.00	0.00	0.00	0.010	1.33	0.039	0.020	0.013	0.11	4.03	0.79	0.00	9.5	1
3	B3	0.00	0.00	0.00	0.00	MH	0.0	0.00	0.00	0.00	0.00	Sag	0.00	0.000	0.000	0.013	0.00	0.00	0.00	0.00	0.0	Off
4	C1	2.49*	0.00	2.49	0.00	Curb	0.5	6.40	0.00	0.00	0.00	Sag	1.33	0.039	0.020	0.013	0.27	12.37	1.06	12.37	9.5	Off
5	C2	3.23*	0.00	3.23	0.00	Curb	0.5	8.00	0.00	0.00	0.00	0.010	1.33	0.039	0.020	0.013	0.23	10.22	0.81	0.49	9.5	4
6	C3	2.74*	0.00	2.74	0.00	Curb	0.5	8.00	0.00	0.00	0.00	0.010	1.33	0.039	0.020	0.013	0.22	9.59	0.79	0.00	9.5	5
7	C4	2.13*	0.00	2.13	0.00	Curb	0.5	7.00	0.00	0.00	0.00	0.013	1.33	0.039	0.020	0.013	0.19	8.27	0.79	0.00	9.5	8
8	C5	1.07*	0.00	1.06	0.01	Curb	0.5	4.00	0.00	0.00	0.00	0.013	1.33	0.039	0.020	0.013	0.15	6.30	0.82	0.81	9.5	11
9	B4	2.44*	0.00	2.44	0.00	Curb	0.5	7.00	0.00	0.00	0.00	0.010	1.33	0.039	0.020	0.013	0.21	9.17	0.79	0.00	9.5	4
10	B5	0.87*	0.00	0.87	0.00	Hdwl	0.0	0.00	0.00	0.00	0.00	Sag	0.00	0.000	0.000	0.013	0.00	0.00	0.00	0.00	0.0	Off
11	C6	1.19*	0.01	1.20	0.00	Curb	0.5	5.60	0.00	0.00	0.00	Sag	1.33	0.039	0.020	0.013	0.19	8.11	0.98	8.11	9.5	Off
12	A1	0.00	0.00	0.00	0.00	MH	0.0	0.00	0.00	0.00	0.00	Sag	0.00	0.000	0.000	0.013	0.00	0.00	0.00	0.00	0.0	Off
13	A2	4.57*	0.00	4.02	0.55	Curb	0.5	7.00	0.00	0.00	0.00	0.010	1.33	0.039	0.020	0.013	0.26	11.67	0.92	5.06	9.5	Off
14	A3	0.00	5.91	0.00	5.91	MH	0.0	0.00	0.00	0.00	0.00	Sag	0.00	0.000	0.000	0.013	0.00	0.00	0.00	0.00	0.0	Off
Accepted Record Drawings These plans have been reviewed for accuracy and are accepted for basic conformance to the approved construction drawings.																						
Project File: PUBLIC STORM 10-YR.stm													Number of lines: 14					Run Date: 7/24/2019				
NOTES: Inlet N-Values = 0.016; Known Qs only; * Indicates Known Q added. All curb inlets are throat.																						



BARS	BAR SIZE	SPACING (IN.)
H	4	12
V	4	12
L	5	6
W	5	6

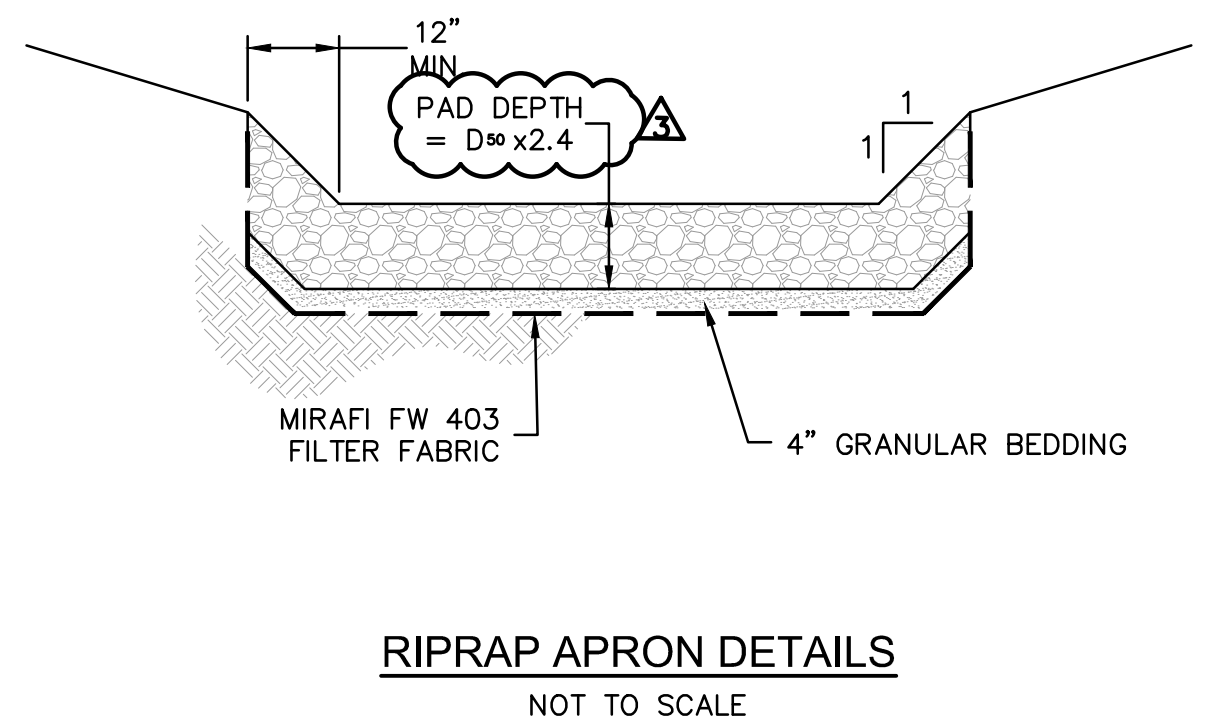
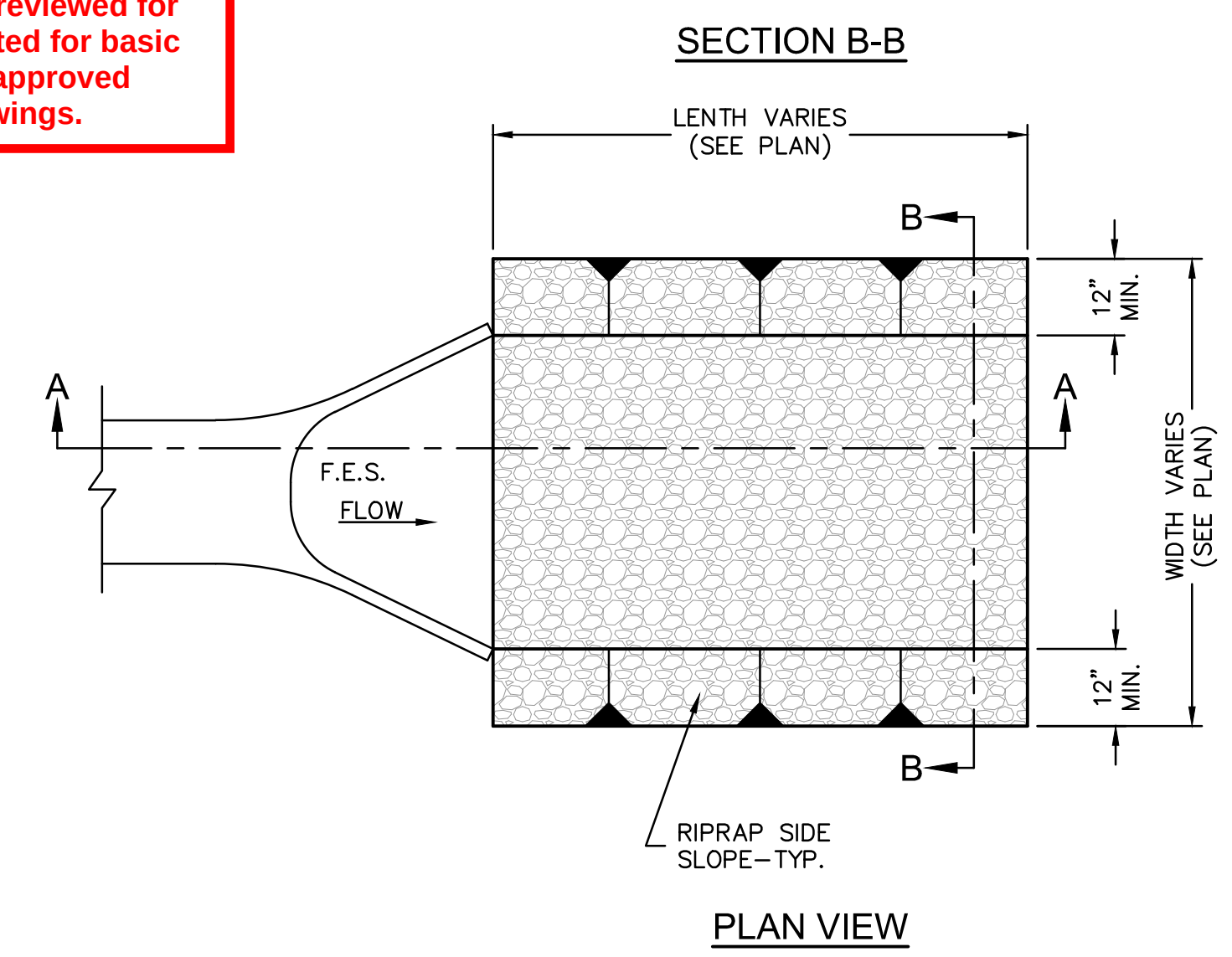
CLASSIFICATION & GRADATION OF RIPRAP & RIVER GRAVEL			
RIP-RAP DESIGNATION	PERCENT (%) SMALLER THAN GIVEN BY WEIGHT	INTERMEDIATE ROCK DIMENSION (INCHES)	*D ₅₀ (INCHES)
CLASS III	85-100	18	10
	50-85	13	
	15-50	9.5	
	2-15	7	

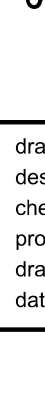
*D₅₀ = MEAN PARTICLE SIZE (INTERMEDIATE DIMENSION)



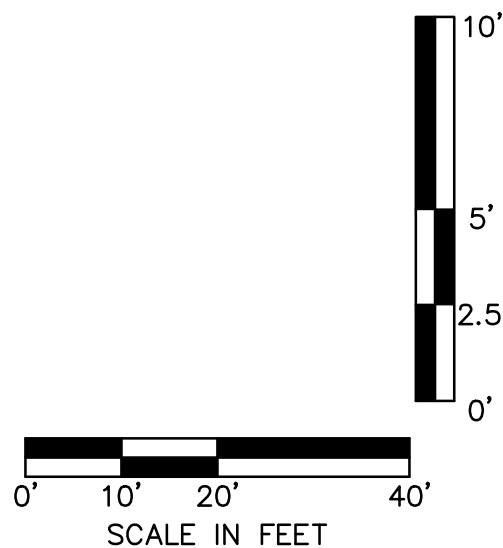
**Accepted
Record Drawings**

These plans have been reviewed for accuracy and are accepted for basic conformance to the approved construction drawings.



 Olsson Engineering MO State Certificate of Authority #401592 Olsson Landscape Architecture MO State Cert. of Authority #200500285 550 St. Louis St. Springfield, MO 65806 TEL 417.890.8802 www.olsson.com					
RECORD DRAWING					
					
REV. NO.	DATE	REVISIONS DESCRIPTION			
A	07/19/2019	ENGR. REVIEW COMMENTS			
			REVISIONS		
SE OLDHAM PARKWAY & SE PRINCETON DRIVE STORM WATER DETAILS			2019		
THE PRINCETON SENIOR LIVING SE OLDHAM PARKWAY					
LEE'S SUMMIT, MISSOURI			2019		
drawn by: _____ RPJ designed by: _____ RVJ checked by: _____ JLR project no.: _____ 018-1450 drawing no.: C_STM_DTLS_81450 date: _____ 07.19.19					
SHEET ST4.0					

USER: rjeppson



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HORIZONTAL SCALE 1" = 20'
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550 St. Louis St.
Springfield, MO 65806
TEL 417.890.8802 www.olsson.com