

CONFEDERATED TRIBES OF THE CHEHALIS RESERVATION

W. ASH STREET IMPROVEMENTS

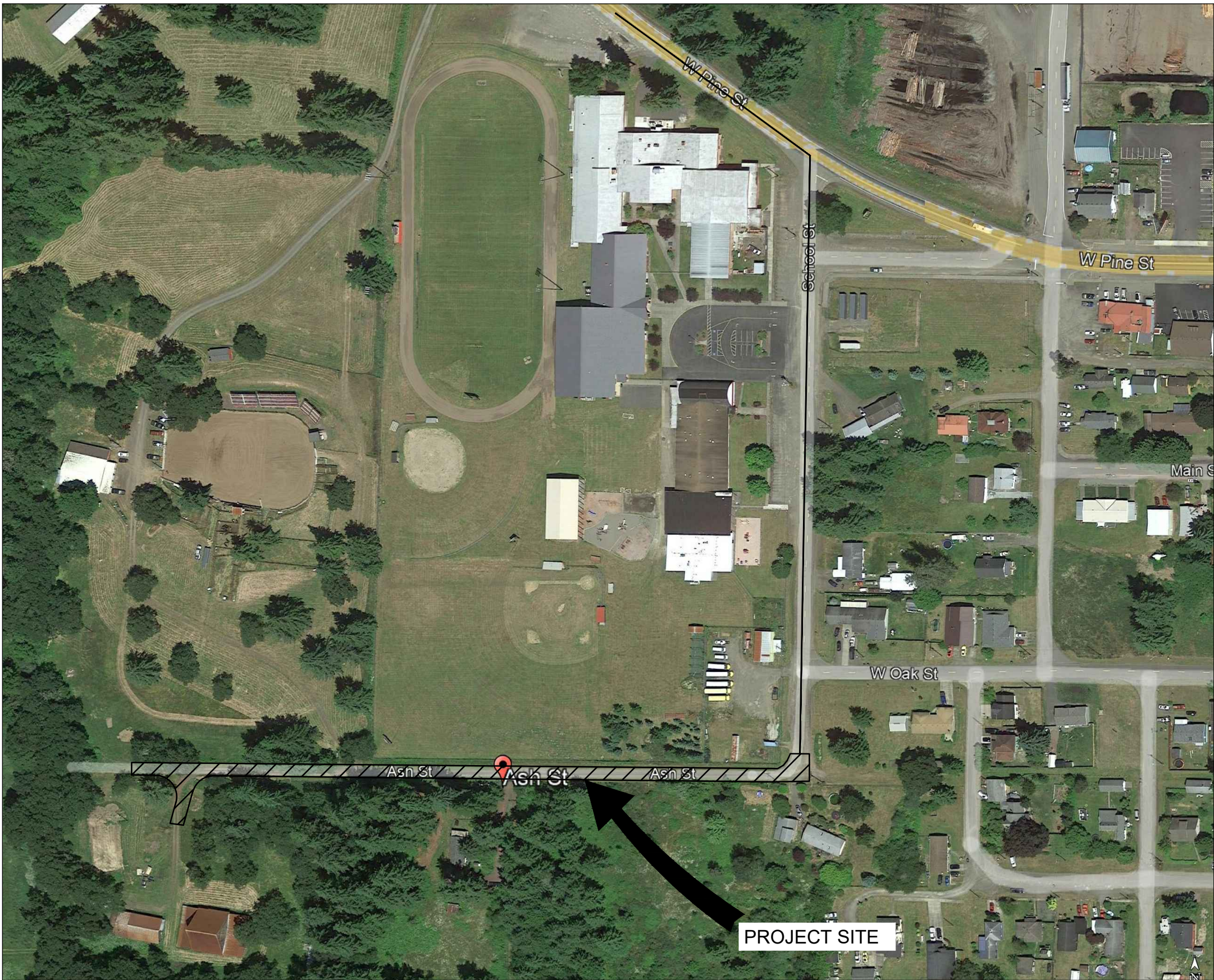
OAKVILLE, WASHINGTON

GENERAL CONSTRUCTION NOTES:

- ALL WORK AND MATERIALS SHALL COMPLY WITH THESE PLANS, CITY OF OAKVILLE STANDARDS AND THE WSDOT 2022 STANDARD SPECIFICATIONS FOR CONSTRUCTION.
- CONTRACTOR SHALL OBTAIN ALL NECESSARY LICENSES AND CONSTRUCTION PERMITS AND SHALL CONTACT EACH PERMITTING AGENCY AT LEAST TWO BUSINESS DAYS PRIOR TO STARTING WORK.
- THE LOCATION OF EXISTING UTILITIES SHOWN ON THE PLANS IS APPROXIMATE. ADDITIONAL UNDERGROUND UTILITIES MAY EXIST. CALL UNDERGROUND SERVICE ALERT AT 811 OR 1-800-424-5555 TWO WORKING DAYS BEFORE BEGINNING ANY TRENCHING OR EXCAVATION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT ALL EXISTING FACILITIES FROM DAMAGE DURING CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF THE REMOVAL OR RELOCATION OF ANY AND ALL EXISTING UTILITIES WITH THE RESPECTIVE UTILITY COMPANY. COST OF THIS COORDINATION IS TO BE INCLUDED IN THE PRICE BID FOR THE VARIOUS IMPROVEMENTS TO COMPLETE THE PROJECT.
- ANY ALTERATION FROM THE THESE PLANS, EXCEPT FOR MINOR FIELD ADJUSTMENT NEEDED TO MEET EXISTING FIELD CONDITIONS, SHALL FIRST BE APPROVED BY THE OWNER'S REPRESENTATIVE. ANY ALTERATION OR VARIANCE FROM THESE PLANS SHALL BE DOCUMENTED ON CONSTRUCTION FIELD PRINTS AND TRANSMITTED TO THE OWNER'S REPRESENTATIVE.
- THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE ENGINEER OR AUTHORIZED DESIGNEE.
- THE CONTRACTOR SHALL KEEP AND MAINTAIN A CURRENT SET OF APPROVED DRAWINGS ON SITE AT ALL TIMES AND SHALL KEEP ACCURATE "AS-BUILT" RECORD COPY OF PLANS. "AS-BUILT" DRAWINGS SHALL BE PROVIDED TO OWNER AT COMPLETION OF PROJECT.
- THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL SURVEY MONUMENTS, AS REQUIRED. ANY SURVEY MONUMENTS DISTURBED DURING THE COURSE OF CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL PROVIDE CONSTRUCTION STAKING FOR THE PROJECT.
- THE CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL APPLY CONTINUALLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
- ALL EXCAVATIONS SHALL BE BACKFILLED AT THE END OF EACH WORKING DAY AND ROADS OPEN TO VEHICULAR TRAFFIC UNLESS OTHERWISE APPROVED BY THE OWNER'S REPRESENTATIVE.

STREET AND UTILITY NOTES:

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THESE PLANS AND THE PROJECT SPECIFICATIONS.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FAMILIARIZE THEIR SELF WITH THE JOB SITE AND THE LOCATION OF ALL UNDERGROUND FACILITIES SHOWN OR NOT SHOWN ON THESE PLANS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING COMPACTION TESTS OF ALL TRENCH BACKFILL AND SUBGRADES AND SUBMITTING THEM TO THE OWNER'S REPRESENTATIVE. NOTIFY THE OWNER/ARCHITECT 24 HOURS PRIOR TO TEST.
- THE CONTRACTOR SHALL SATISFY THEIR SELF THAT ESTIMATED QUANTITIES SHOWN ARE CORRECT BEFORE BIDDING ON ANY ITEM.
- THE CONTRACTOR SHALL MAINTAIN DUST AND EROSION CONTROL AT ALL TIMES.
- ALL EXISTING PAVEMENT TO BE REMOVED SHALL BE SAWCUT AND REMOVED TO CLEAN STRAIGHT LINES.
- AT ALL LOCATIONS WHERE NEW PAVEMENT JOINS EXISTING, THE EXISTING PAVEMENT SHALL BE COATED WITH AN ASPHALTIC EMULSION TACKIFIER.
- THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITY VALVES, BOXES AND COVERS, AND ADJUSTING OF ALL UTILITY VALVE BOXES AND COVERS TO FINISH GRADE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL UTILITIES.
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING TRAFFIC CONTROL DURING CONSTRUCTION.
- ALL EXISTING UTILITY LINES ACROSS TRENCHES SHALL BE MAINTAINED IN SERVICE AND SHALL BE PROPERLY SUPPORTED, UNLESS APPROVED BY OWNER/ARCHITECT.
- ALL PIPELINES OR SUBSTRUCTURES OF ANY KIND, AND TELEPHONE POWER POLES, WATER METERS, IRRIGATION STANDPIPES, VALVES, HYDRANTS, ETC. SHOWN OR NOT SHOWN ON THESE PLANS WITHIN THE LIMITS OF THIS PROJECT OR IN ADJACENT AREAS WHERE IMPROVEMENT WORK IS TO BE DONE SHALL BE REMOVED OR RELOCATED AS NECESSARY. SERVICE DISRUPTIONS WILL BE KEPT TO A MINIMUM AND SHALL OCCUR ONLY AFTER MINIMUM 24 HOURS NOTICE TO ALL PARTIES CONCERNED.



SITE MAP
SCALE: NTS



VICINITY MAP
SCALE: NTS

SPONSORING AGENCY

CONFEDERATED TRIBES OF THE CHEHALIS RESERVATION
420 HOWANUT ROAD
OAKVILLE, WA 98568
CONTACT: BRIAN VON CLÜCK, UTILITY CONSTRUCTION
PROJECT COORDINATOR
(360) 709-1862

OWNER OF RIGHT-OF-WAY

CITY OF OAKVILLE
PUBLIC WORKS DEPARTMENT
204 E MAIN ST.
OAKVILLE, WA 98568
CONTACT: RICHARD ARMSTRONG, DIRECTOR
(360) 791-8772

CIVIL ENGINEER

AKANA
6400 SE LAKE ROAD, SUITE 270
PORTLAND, OREGON 97222
CONTACT: PAUL KNOX, PROJECT ENGINEER
(503) 652-9090

UTILITIES

WATER:
CITY OF OAKVILLE
PUBLIC WORKS DEPARTMENT
CONTACT: RICHARD ARMSTRONG, DIRECTOR
(360) 791-8772

POWER:
GRAYS HARBOR PUD
2720 SUMNER AVE
ABERDEEN, WA 98520
(360) 538-4220 (ENGINEERING)

TELECOMMUNICATIONS:
LUMEN
411 KAISER RD SW,
OLYMPIA WA 98502
CONTACT: MICHELLE PALMER, FIELD
ENGINEER (253) 458-6578

CALL 48 HOURS
BEFORE YOU DIG
1-800-424-5555

SHEET LIST TABLE

SHEET NUMBER	SHEET TITLE
C01	COVER SHEET AND GENERAL NOTES
C02	EXISTING CONDITIONS AND DEMOLITION PLAN
C03	EROSION CONTROL PLAN / TRAFFIC CONTROL PLAN
C04	PLAN AND PROFILE - BEGIN TO STA 5+00
C05	PLAN AND PROFILE - STA 5+00 TO STA 9+00
C06	PLAN AND PROFILE - STA 9+00 TO END
C07	INTERSECTION PLAN
C08	SECTION VIEWS - 1
C09	SECTION VIEWS - 2
C10	DETAILS
C11	DETAILS

NO.	DATE	BY	REVISIONS
1	3/6/23	RPK	ISSUED FOR CONSTRUCTION

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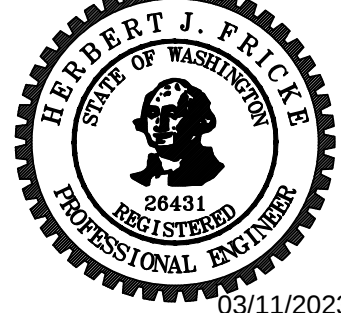


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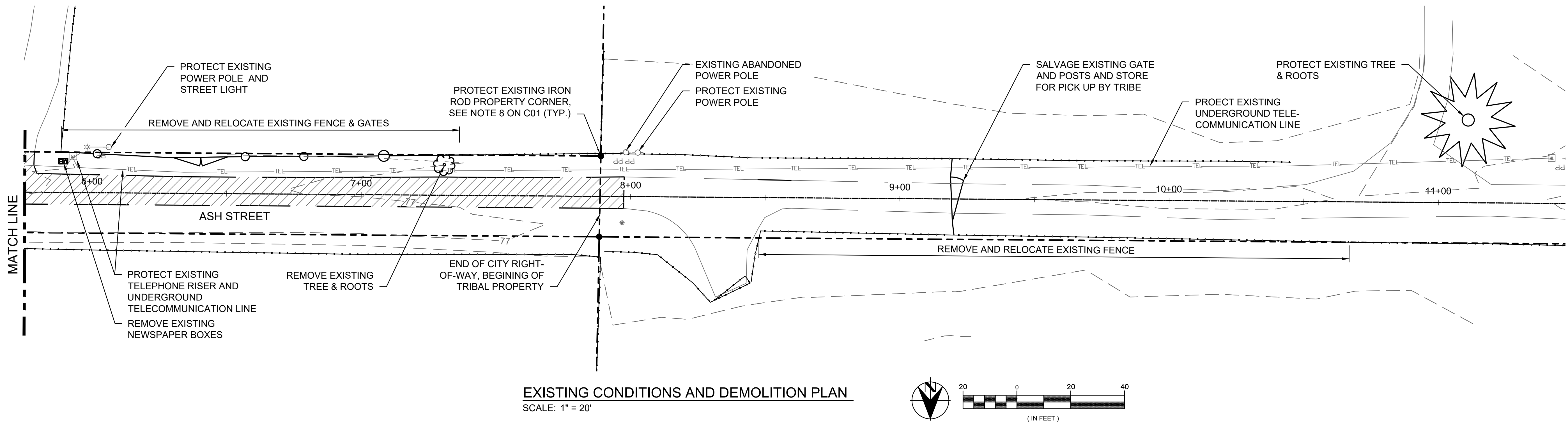
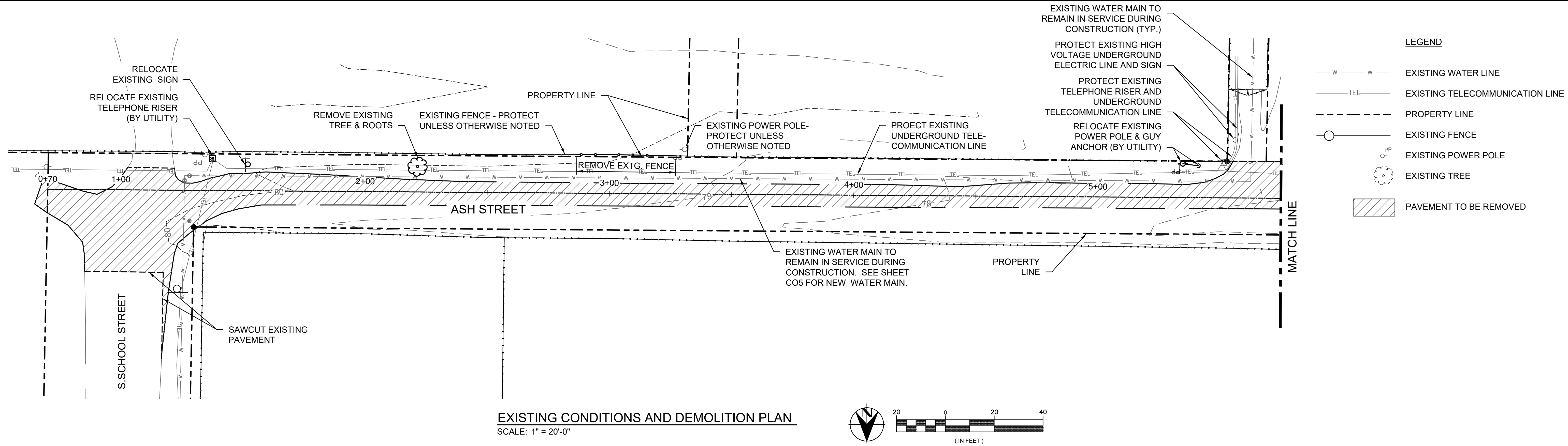
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03/10/2023
DRAWING DATE



W. ASH STREET IMPROVEMENTS
COVER SHEET AND
GENERAL NOTES

JOB NO.
AKANA 21-043
SHEET NO.
C01
1 OF 11

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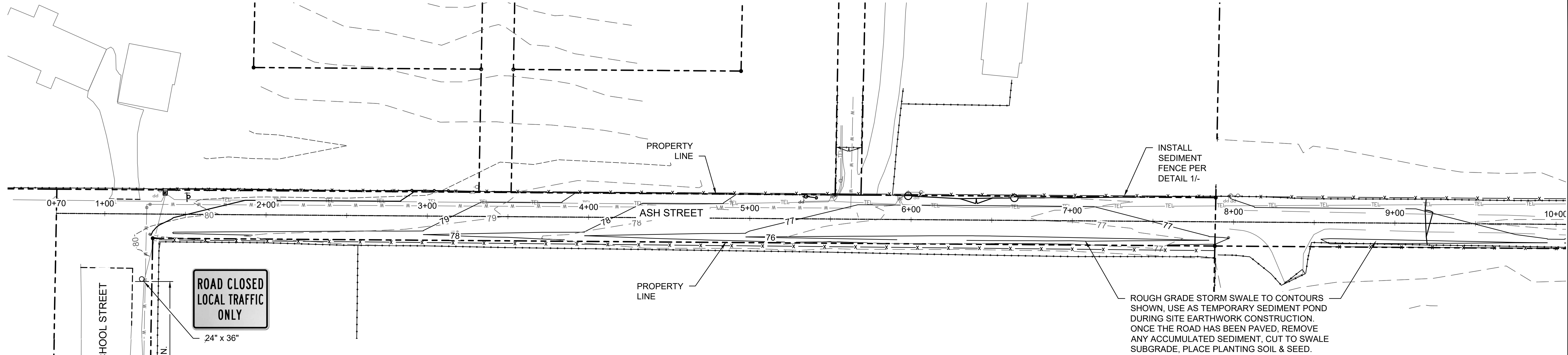
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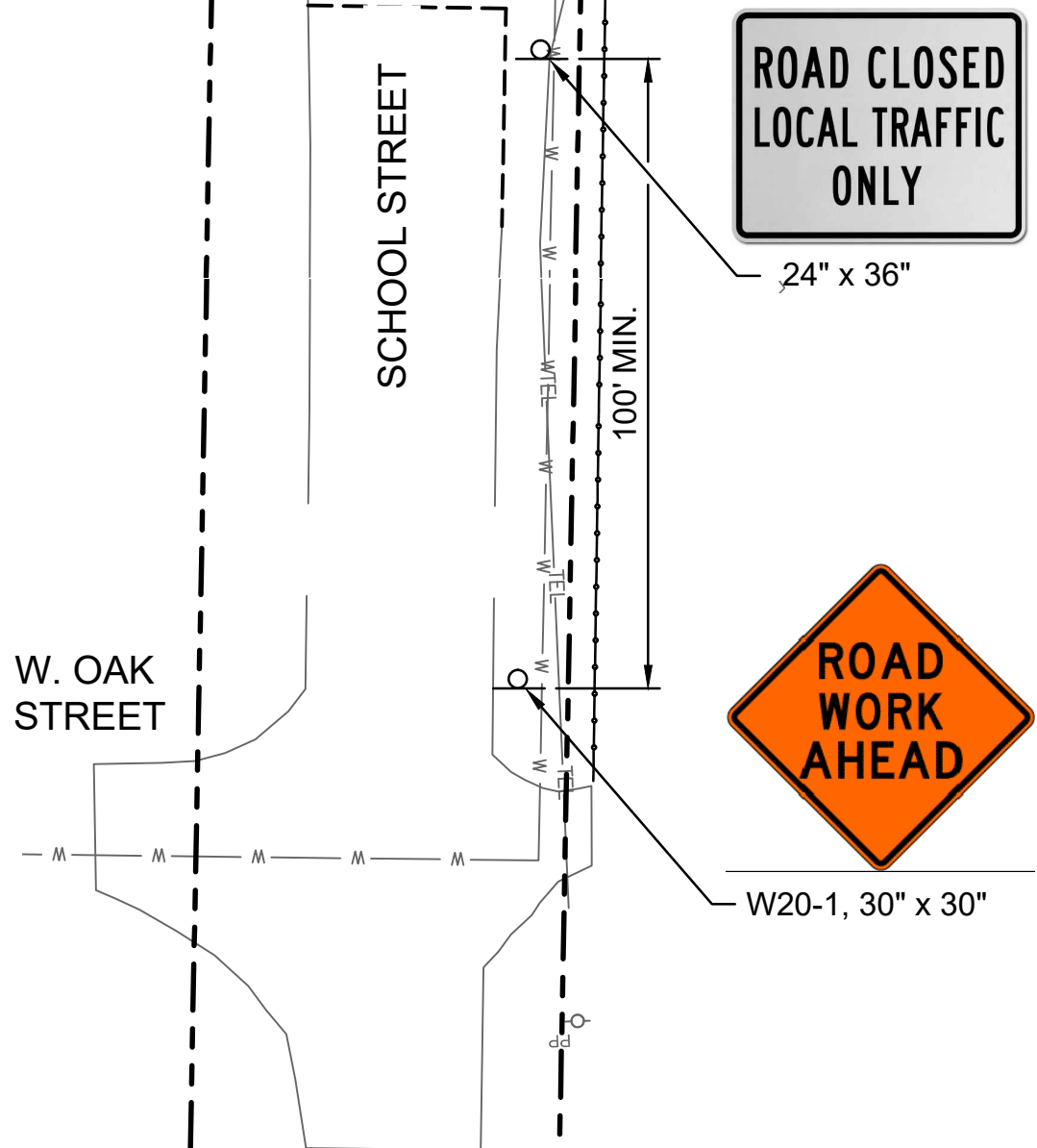
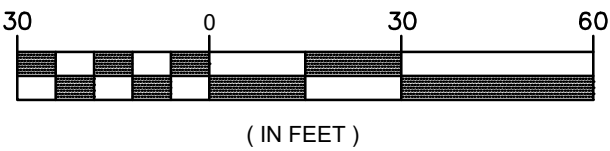
W. ASH STREET IMPROVEMENTS
EXISTING CONDITIONS
AND DEMOLITION PLAN

JOB NO. AKANA 21-043
SHEET NO. C02
2 OF 11

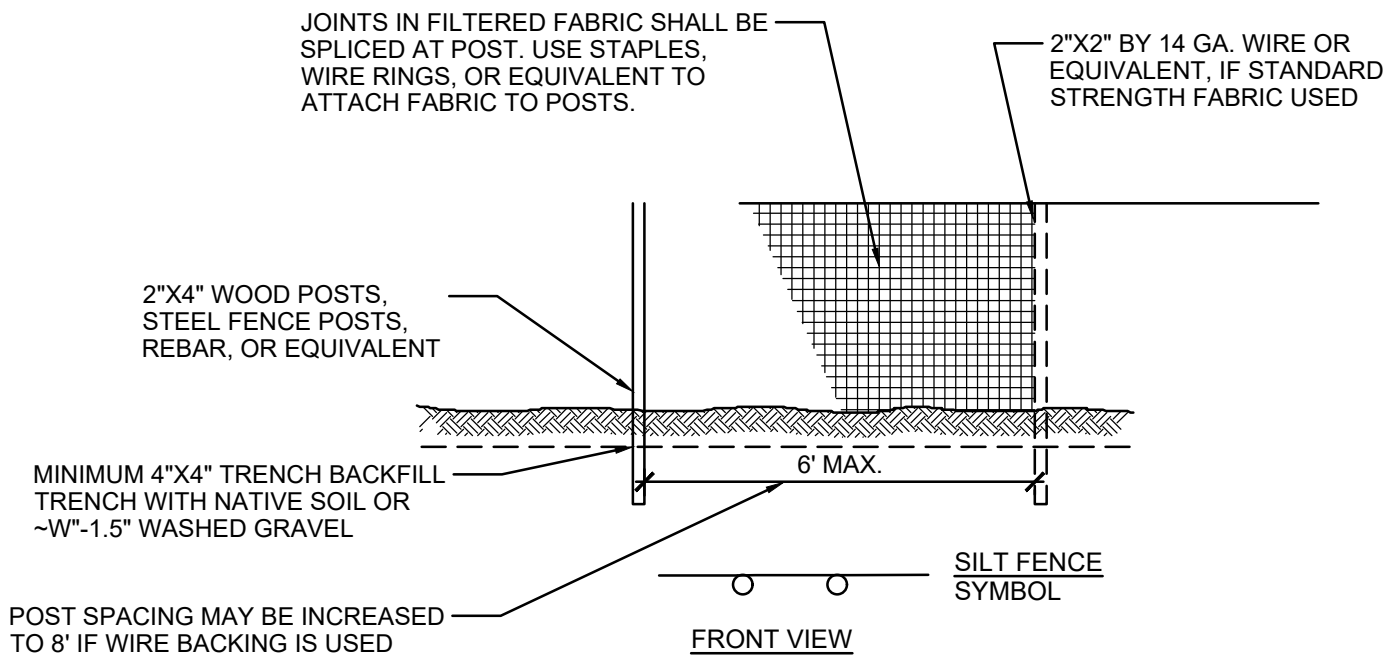
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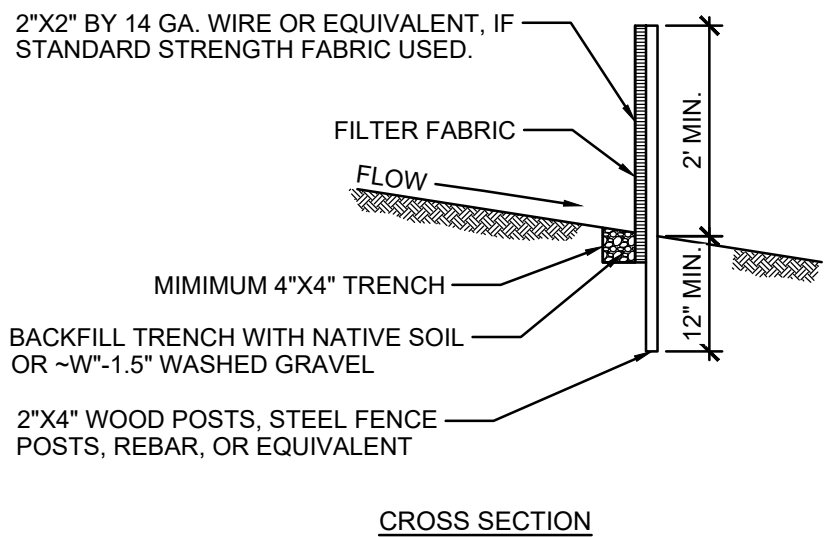
EROSION CONTROL PLAN
SCALE: 1" = 30'-0"



TRAFFIC CONTROL PLAN
SCALE: 1" = 30'-0"



NOTE: FILTER FABRIC FENCES SHALL BE INSTALLED ALONG CONTOUR WHENEVER POSSIBLE.



1 SEDIMENT FENCE
SCALE: NTS

GENERAL NOTES FOR EROSION, SEDIMENT AND POLLUTANT CONTROL:

1. EROSION, SEDIMENT AND POLLUTANT CONTROL IS REQUIRED FOR THIS PROJECT AND MUST BE IN PLACE PRIOR TO CONSTRUCTION.
2. PREPARE SITE SPECIFIC AN EROSION, SEDIMENT AND POLLUTANT CONTROL PLAN (ESPCP) BEFORE BEGINNING WORK. KEEP A COPY OF THE ESPCP ON SITE AT ALL TIMES DURING THE PROJECT.
3. THE EROSION AND SEDIMENT CONTROL FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR THE ANTICIPATED SITE AND SEASONAL CONDITIONS. UPGRADE THESE FACILITIES TO ADDRESS CHANGING WORK OR WEATHER CONDITIONS.
4. INSTALL, MONITOR, REPLACE AND UPGRADE ALL FACILITIES AND MEASURES. PERFORM MAINTENANCE TO ENSURE THEIR CONTINUED FUNCTIONING.
5. INSPECT AND MAINTAIN ALL FACILITIES AND MEASURES UNTIL WORK AREAS ARE RESURFACED OR STABILIZED.
6. COMPLETE AN EROSION CONTROL MONITORING FORM AFTER EACH INSPECTION. INCLUDE THE INSPECTION DATE AND TIME. RETAIN THESE COMPLETED FORMS ON SITE AND PROVIDE THEM UPON REQUEST.
7. NO VISIBLE AND MEASURABLE SEDIMENT OR POLLUTANT SHALL EXIT THE SITE, ENTER A PUBLIC RIGHT-OF-WAY OR BE DEPOSITED INTO ANY WATER BODY OR STORM DRAINAGE SYSTEM.
8. FOLLOWING A STORM EVENT, INSPECT AND ADJUST, REPAIR, IMPROVE OR REPLACE ALL DEFICIENT OR FAILING FACILITIES AND MEASURES.
9. STABILIZE ALL EXPOSED SOIL IMMEDIATELY FOLLOWING GROUND DISTURBING ACTIVITY.
10. STABILIZE AND PROTECT STOCKPILED SOIL WITH APPROVED MEASURES.
11. REMOVE EROSION AND SEDIMENT CONTROL FACILITIES AFTER THE PROJECT IS COMPLETED AND ACCEPTED.

LEGEND

- W — W — EXISTING WATER LINE
- TEL — EXISTING TELECOMMUNICATION LINE
- - - - - PROPERTY LINE
- — EXISTING FENCE
- x — x — SEDIMENT FENCE
- PP — EXISTING POWER POLE

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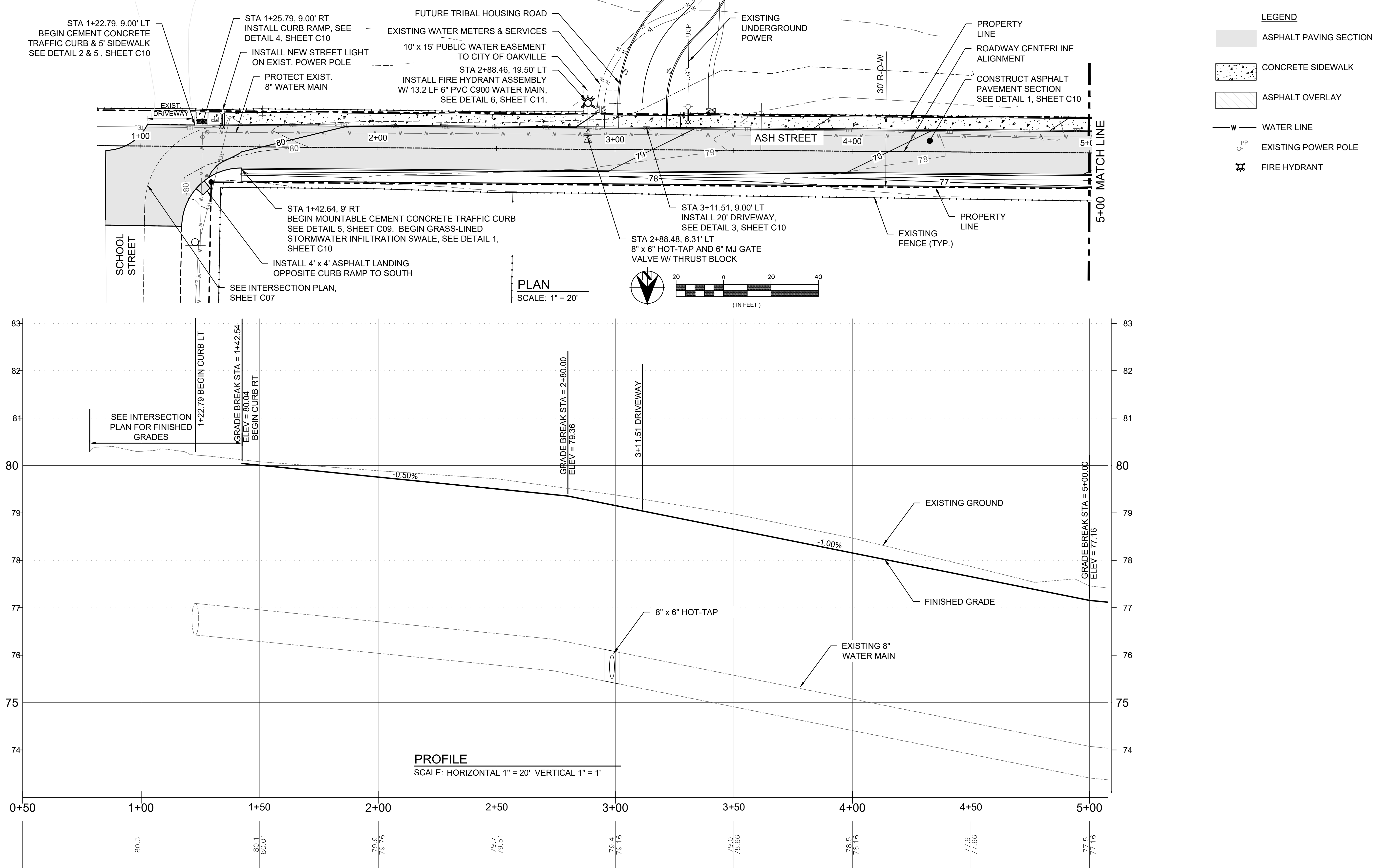
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W. ASH STREET IMPROVEMENTS
**EROSION CONTROL PLAN,
NOTES AND DETAILS**
TRAFFIC CONTROL PLAN

JOB NO.
AKANA 21-043
SHEET NO.
C03
3 OF 11

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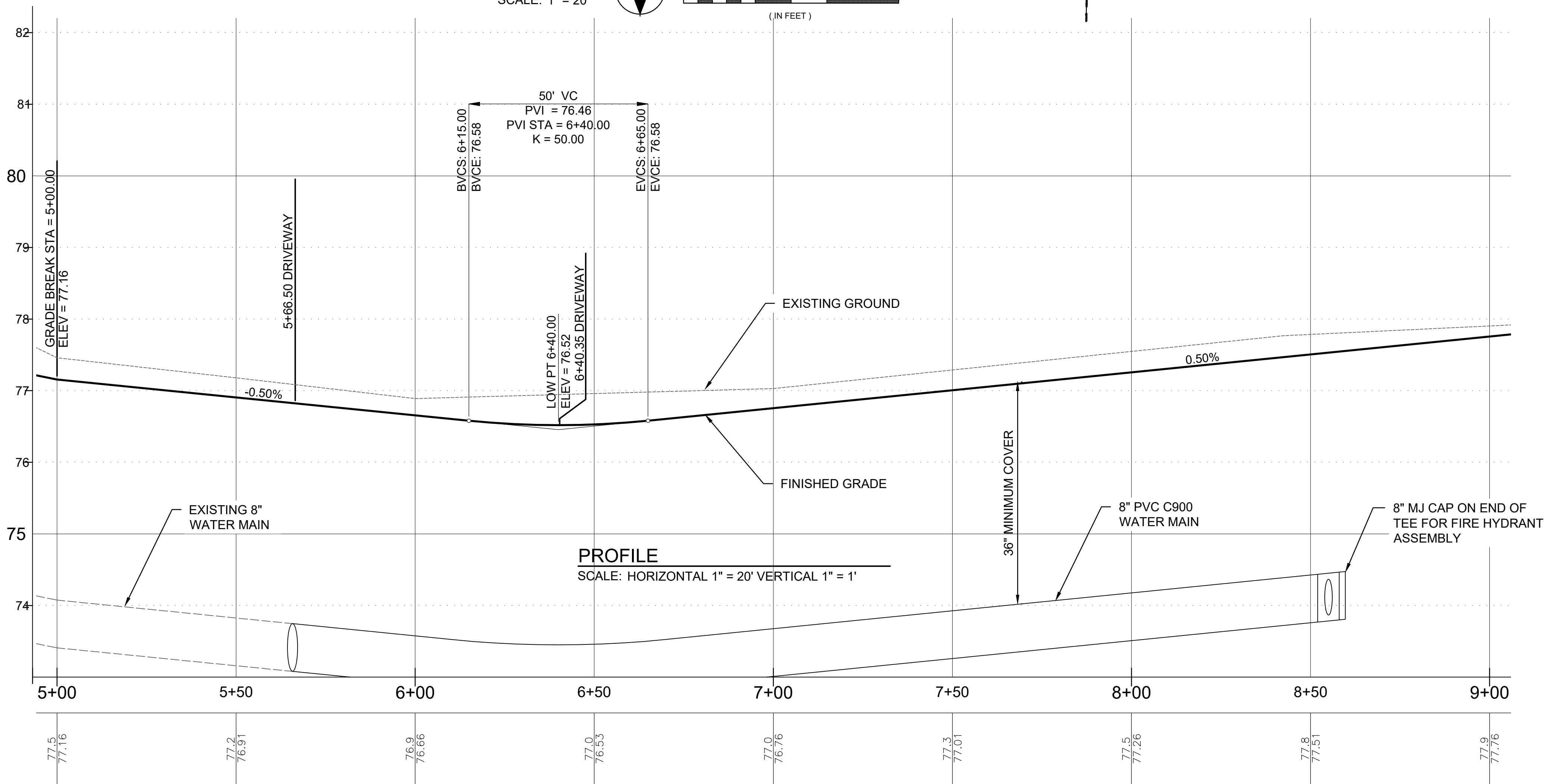
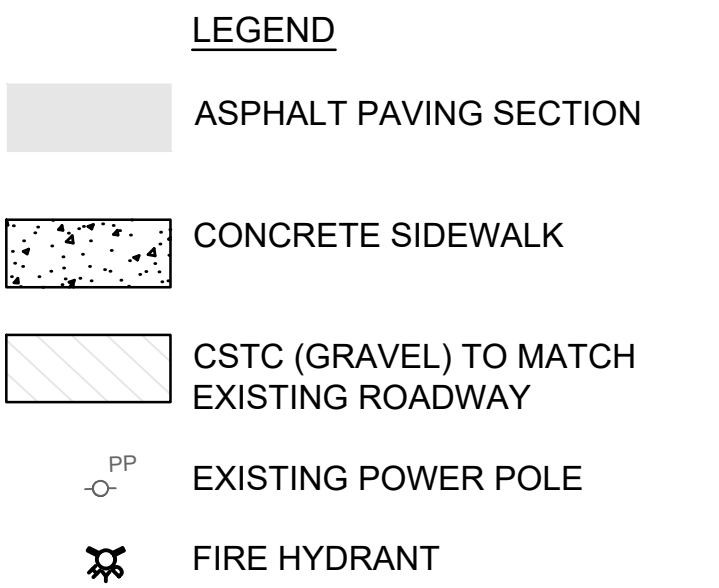
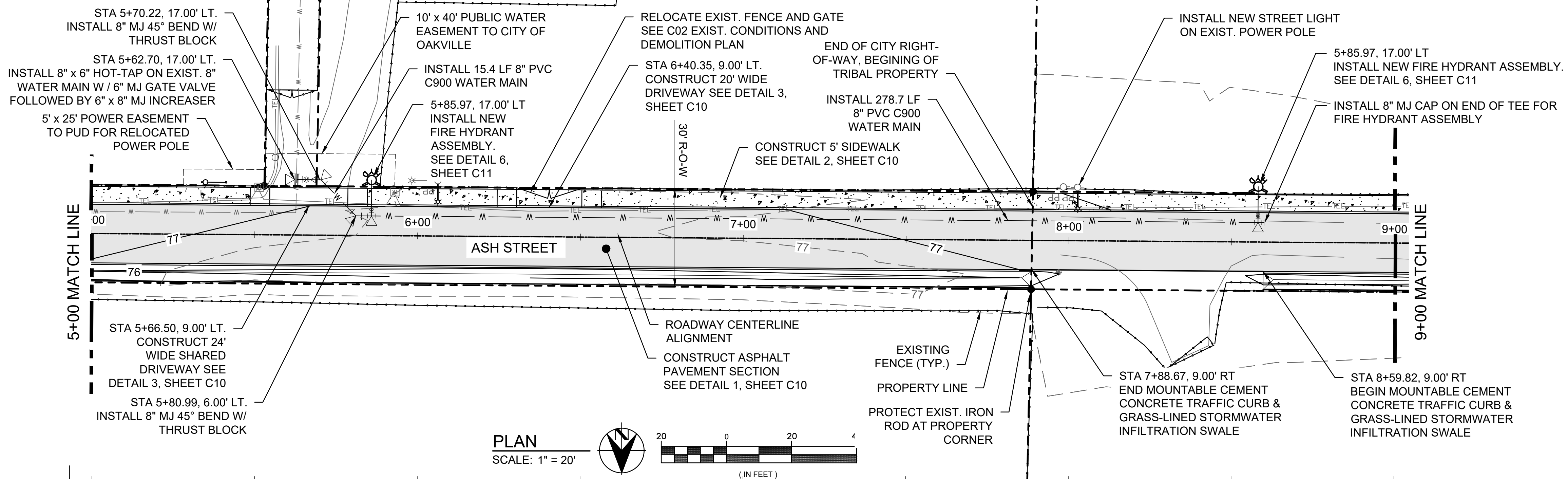
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W. ASH STREET IMPROVEMENTS
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JOB NO.
AKANA 21-043
SHEET NO.
C04
4 OF 11

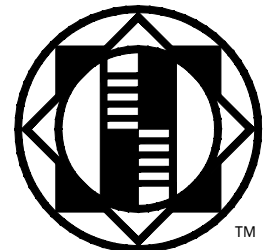
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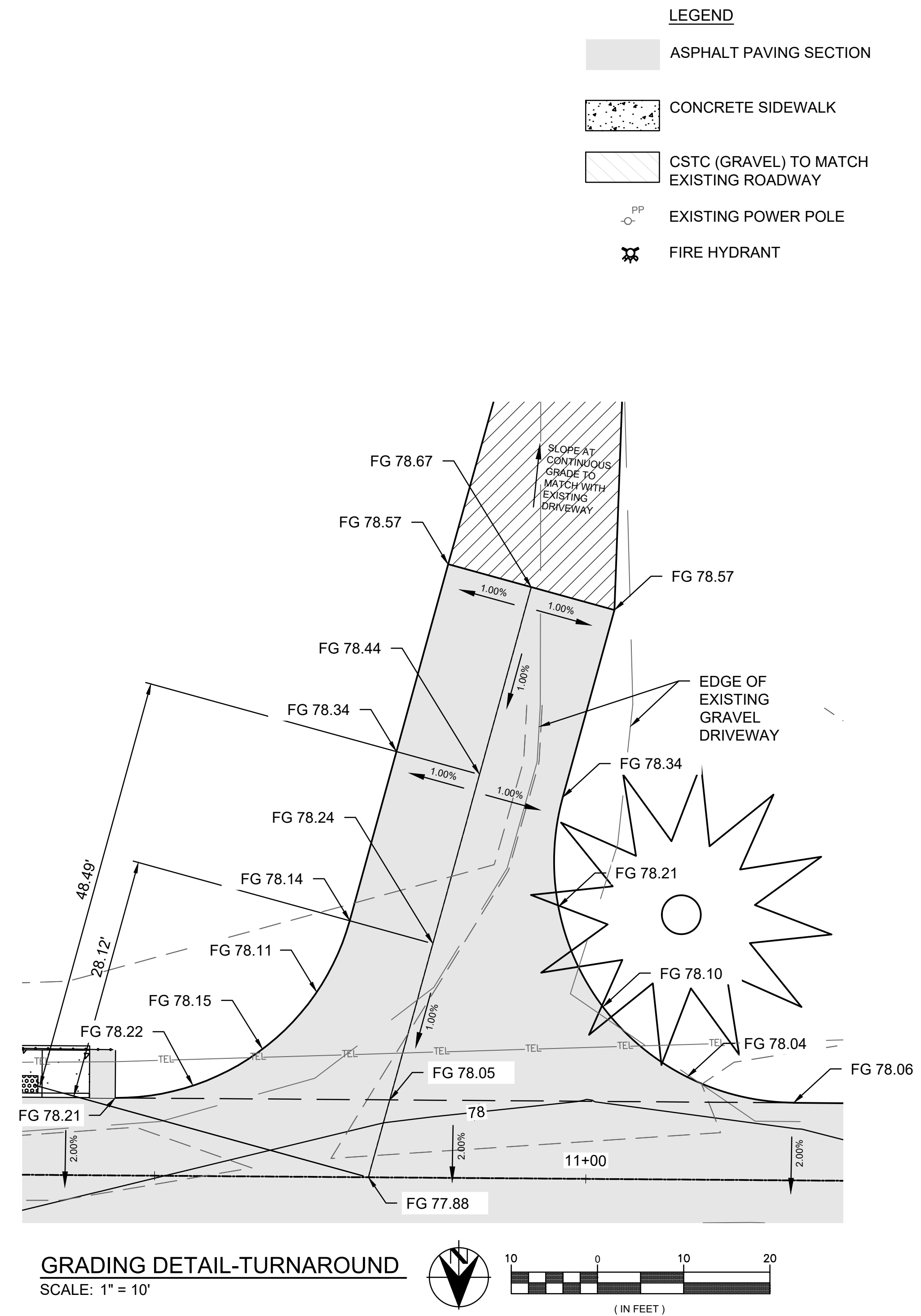
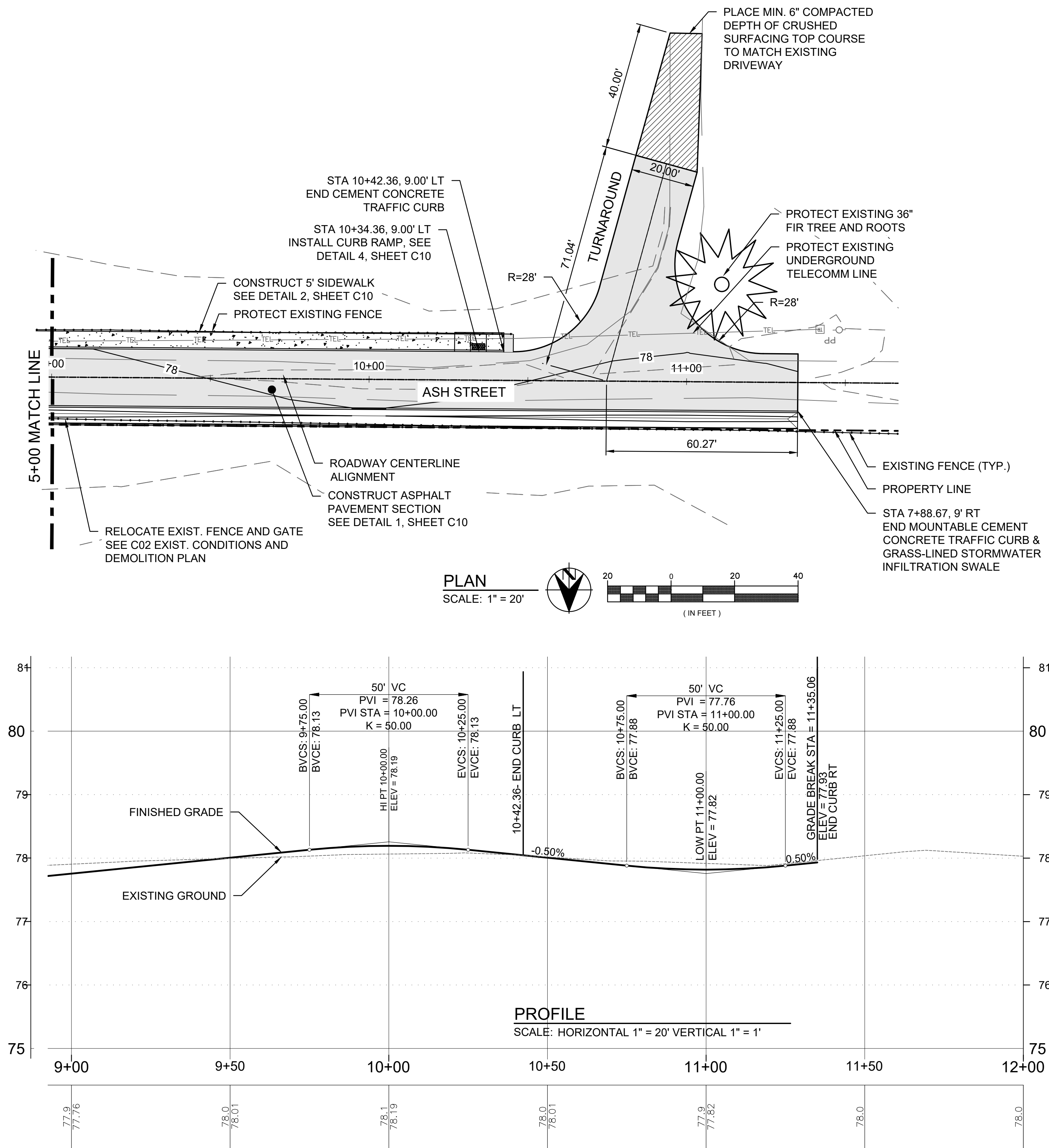
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W. ASH STREET IMPROVEMENTS
PLAN AND PROFILE
STA 5+00 TO STA 9+00

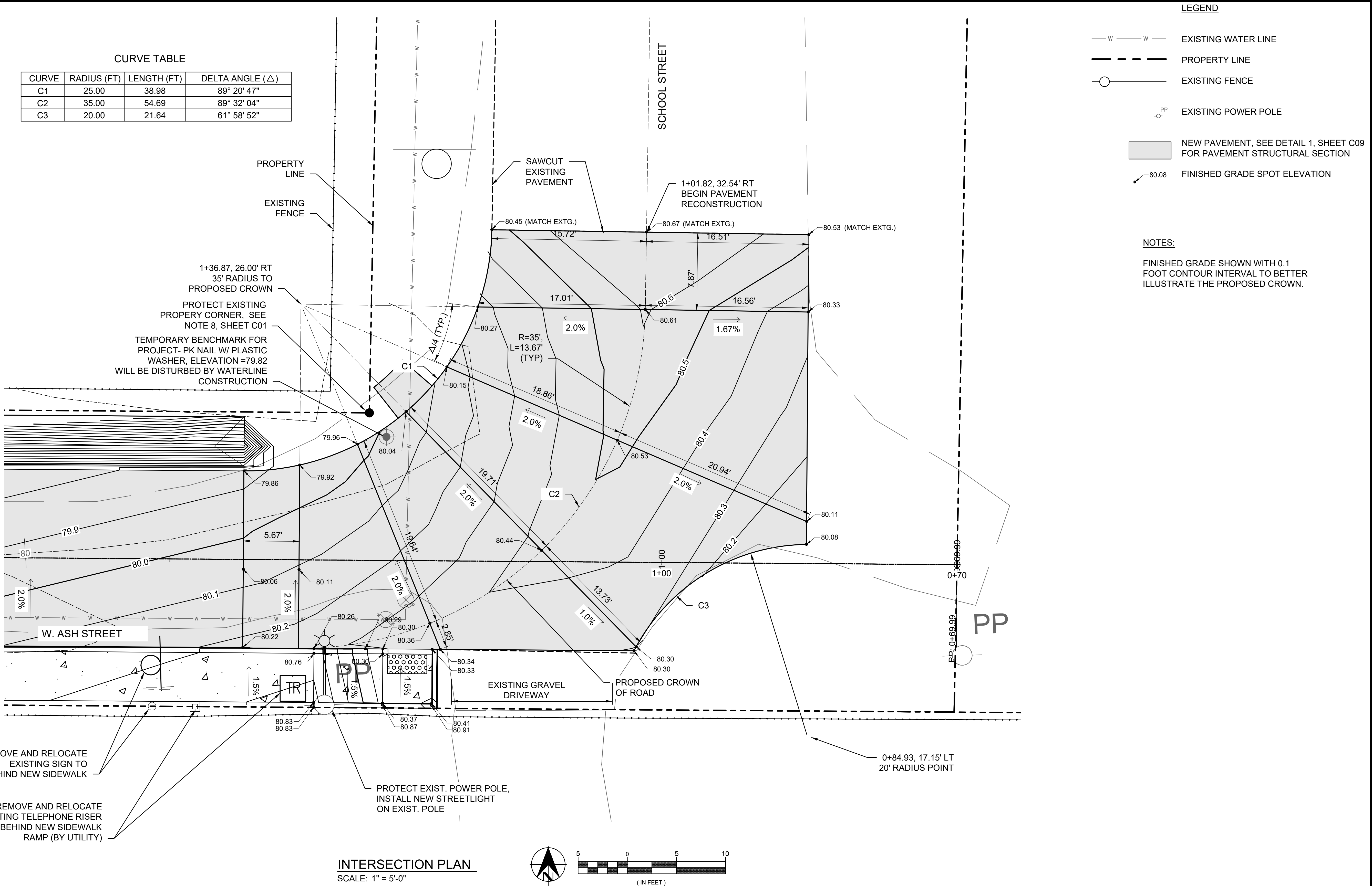
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SHEET NO.
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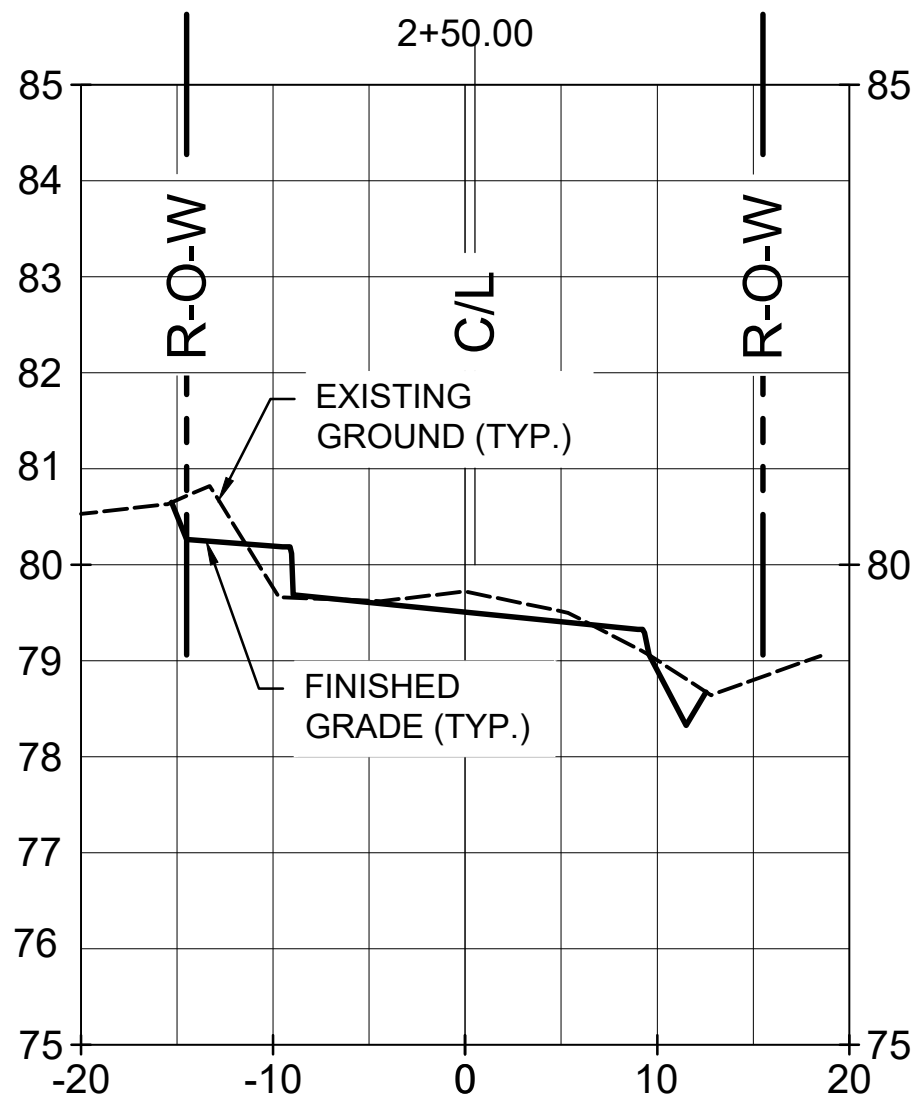
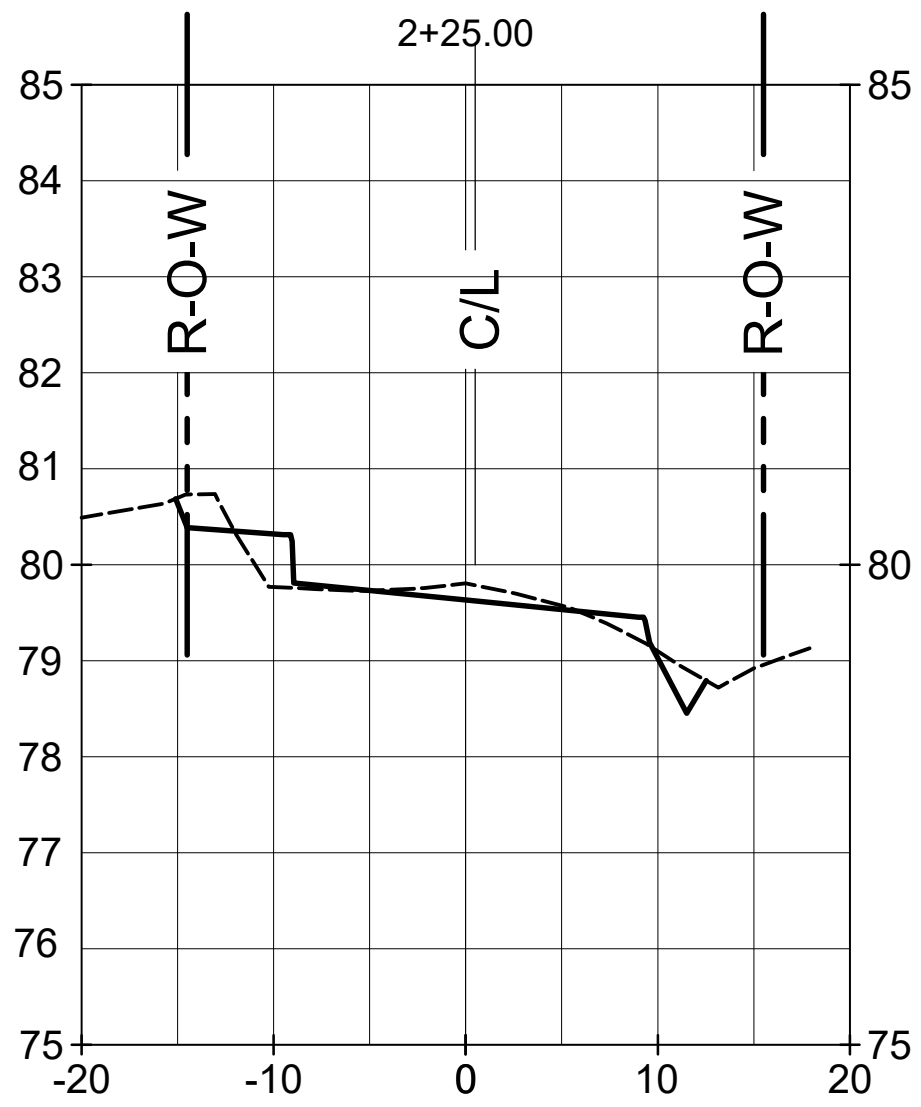
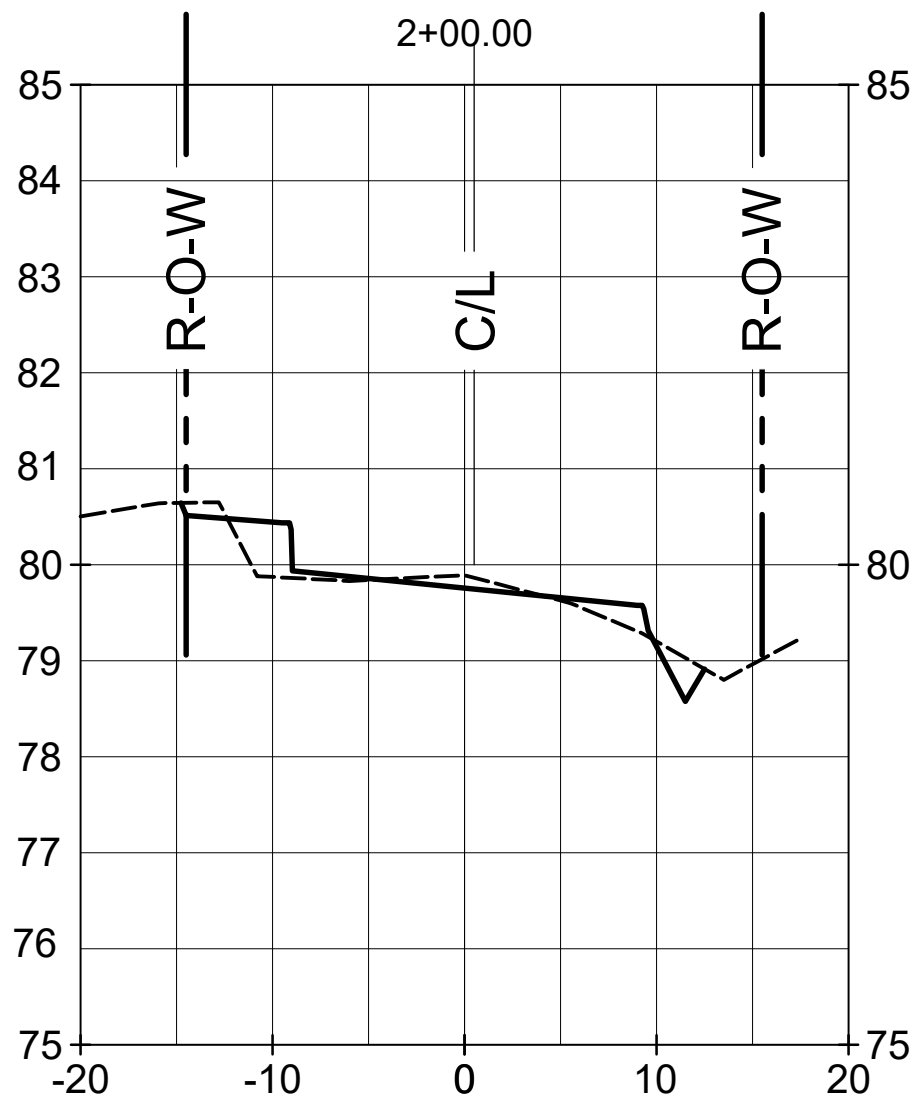
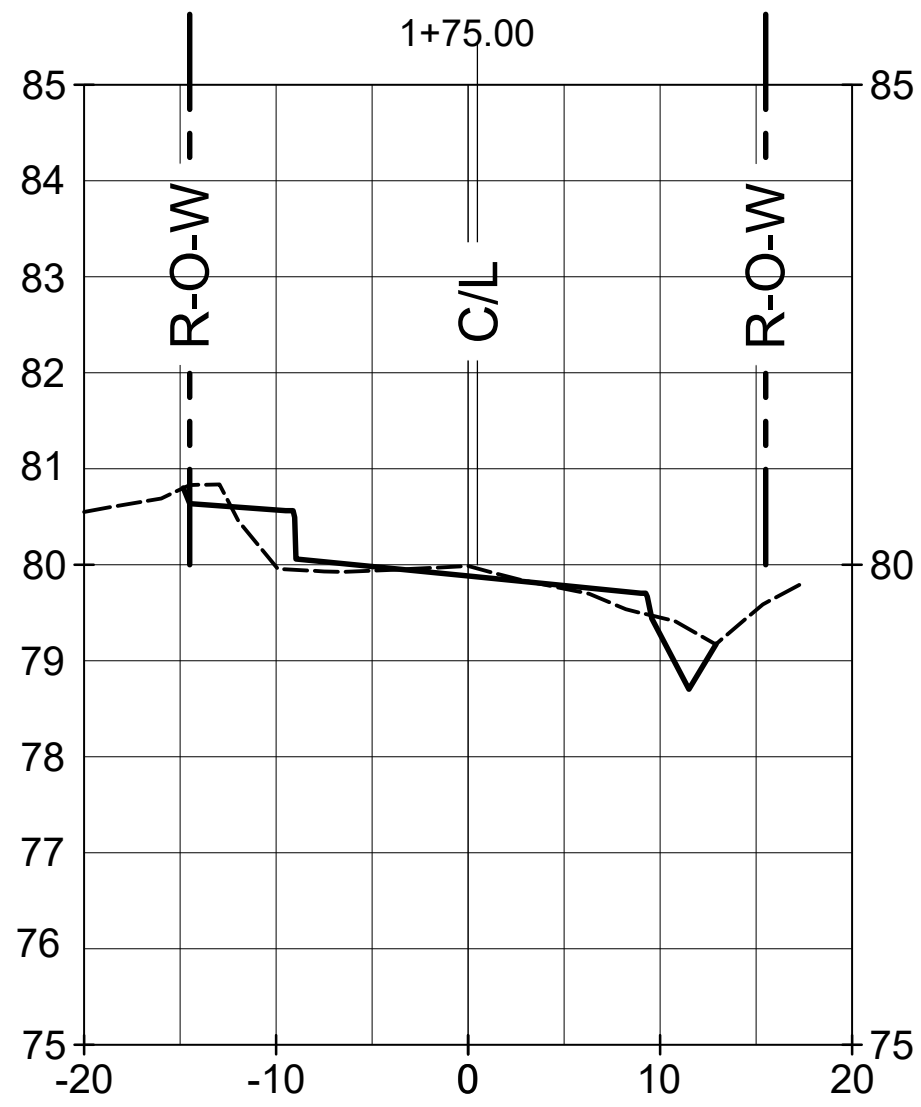
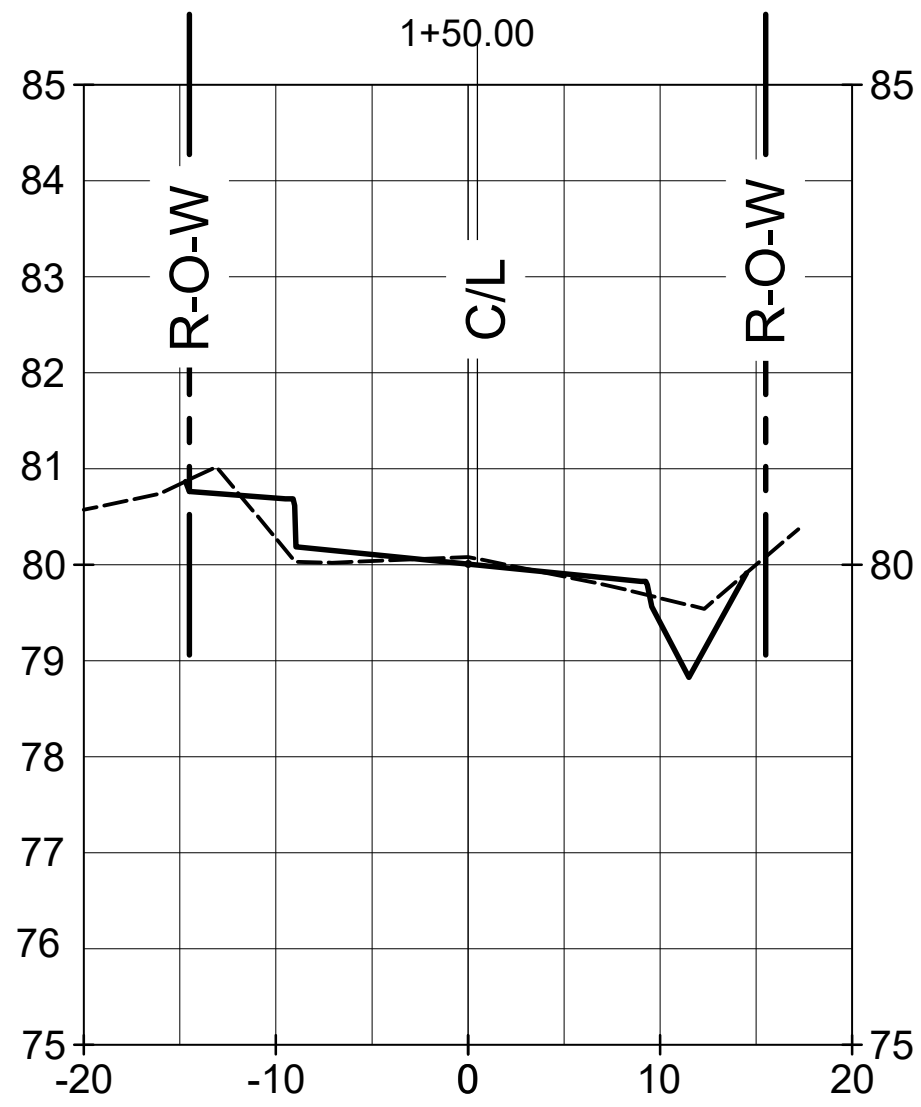
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	NO.	DATE	BY	REVISIONS											
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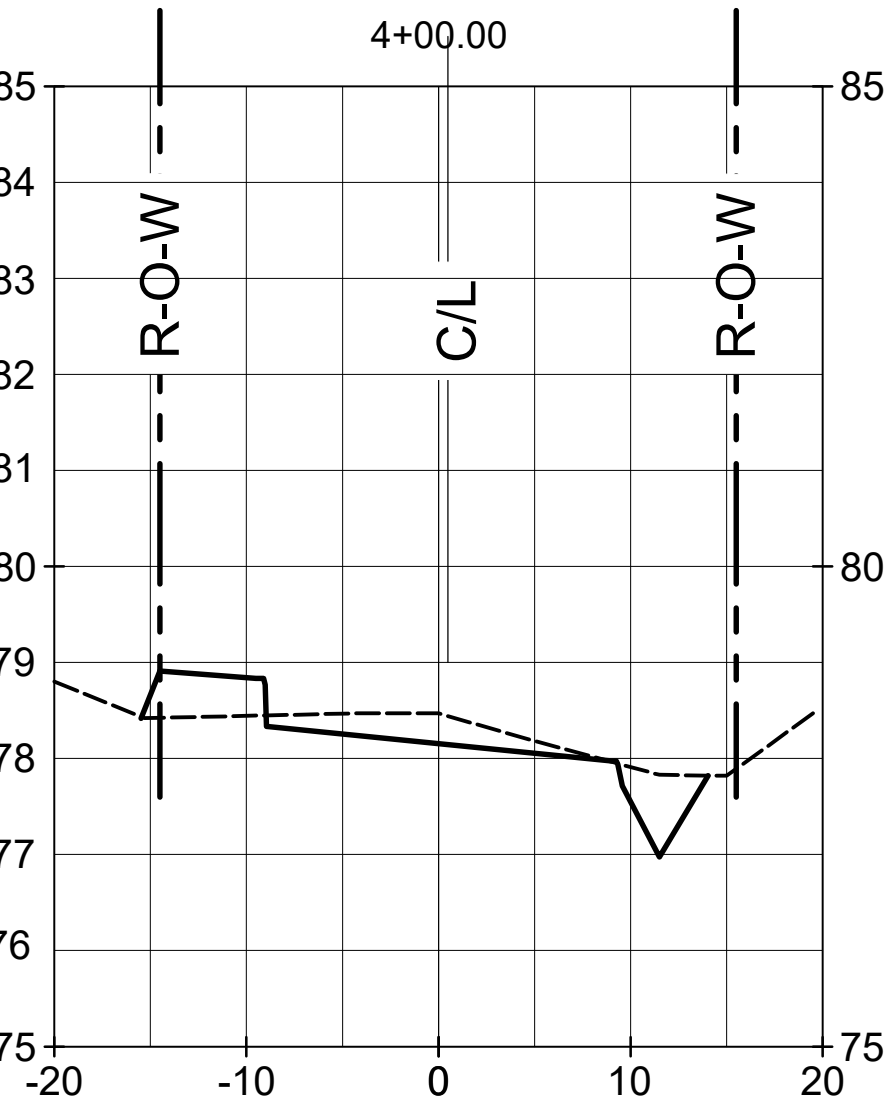
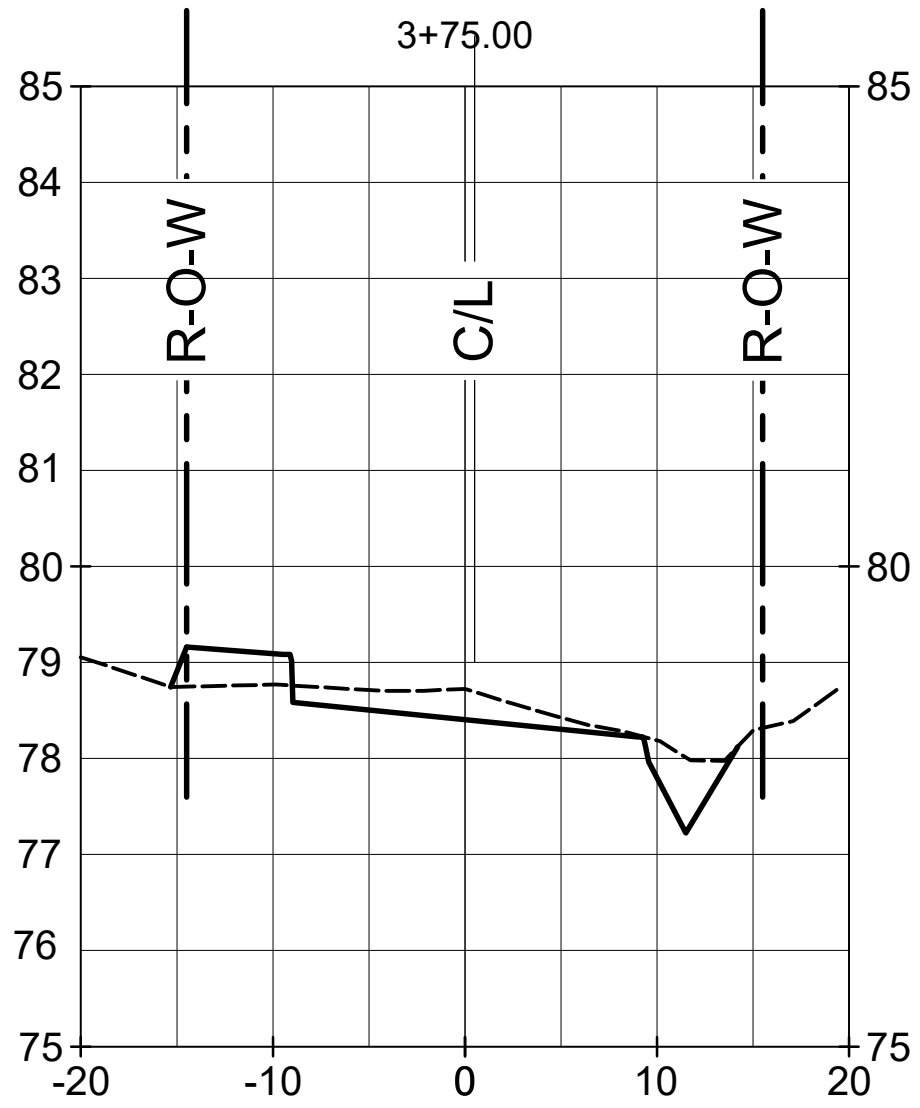
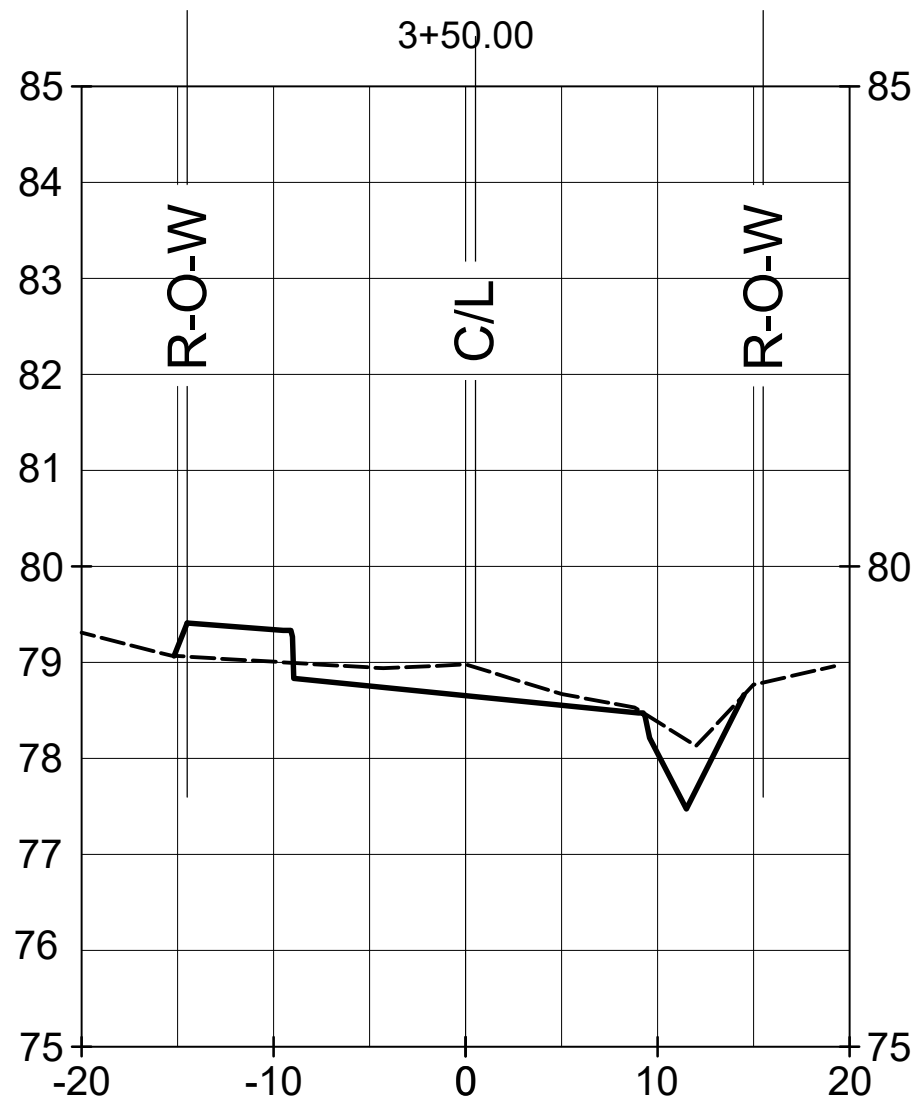
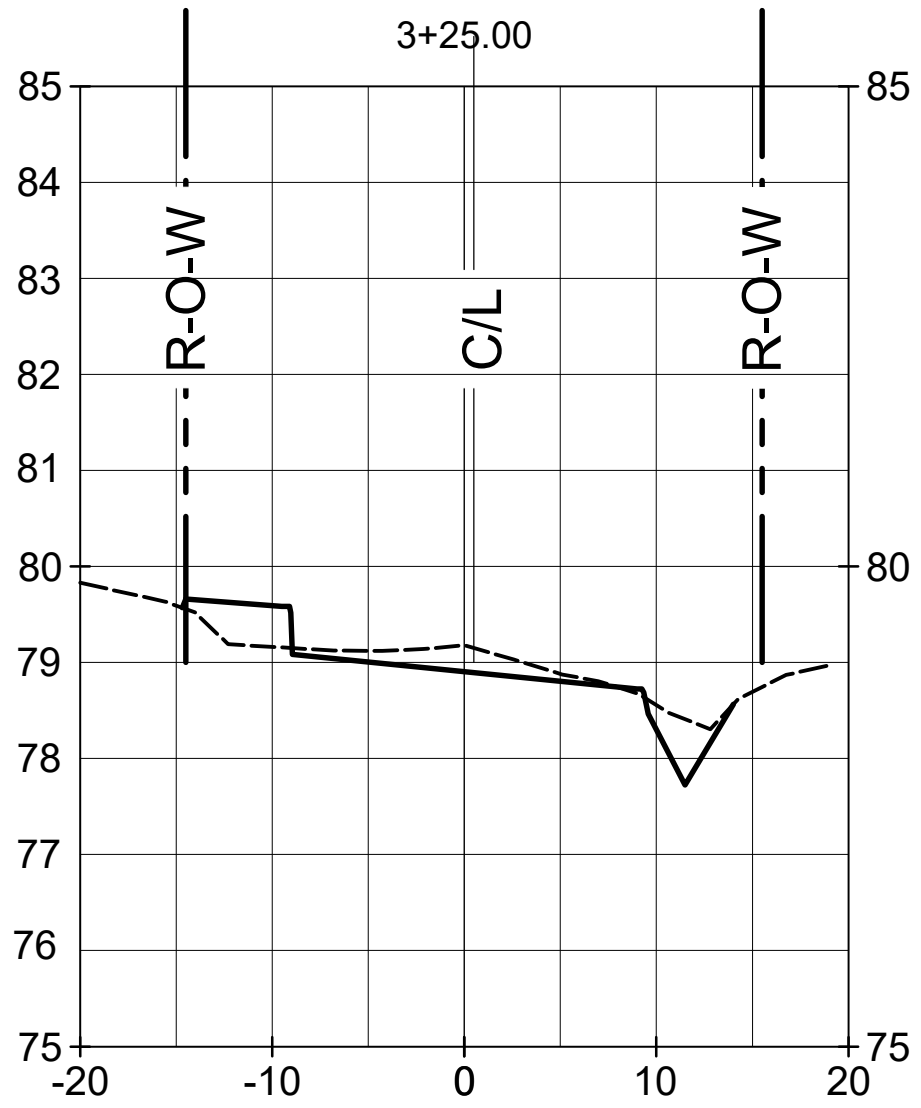
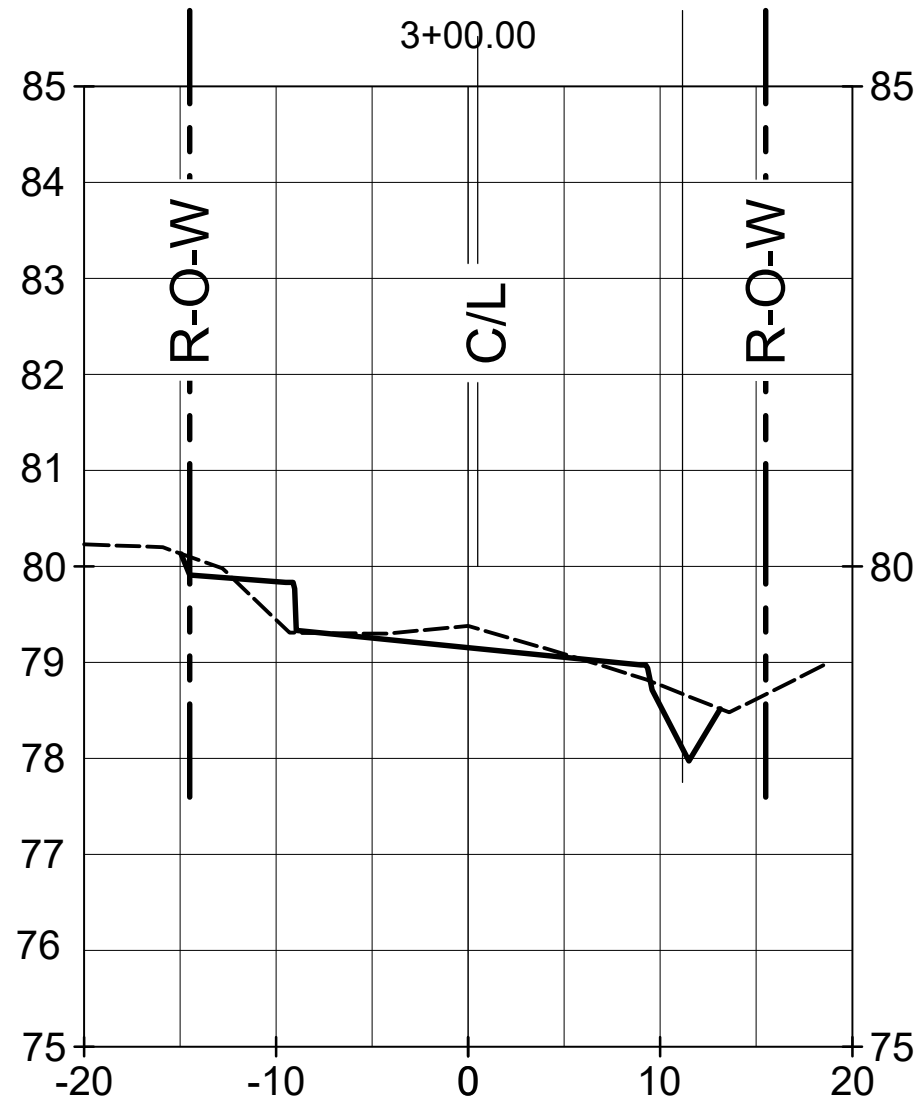
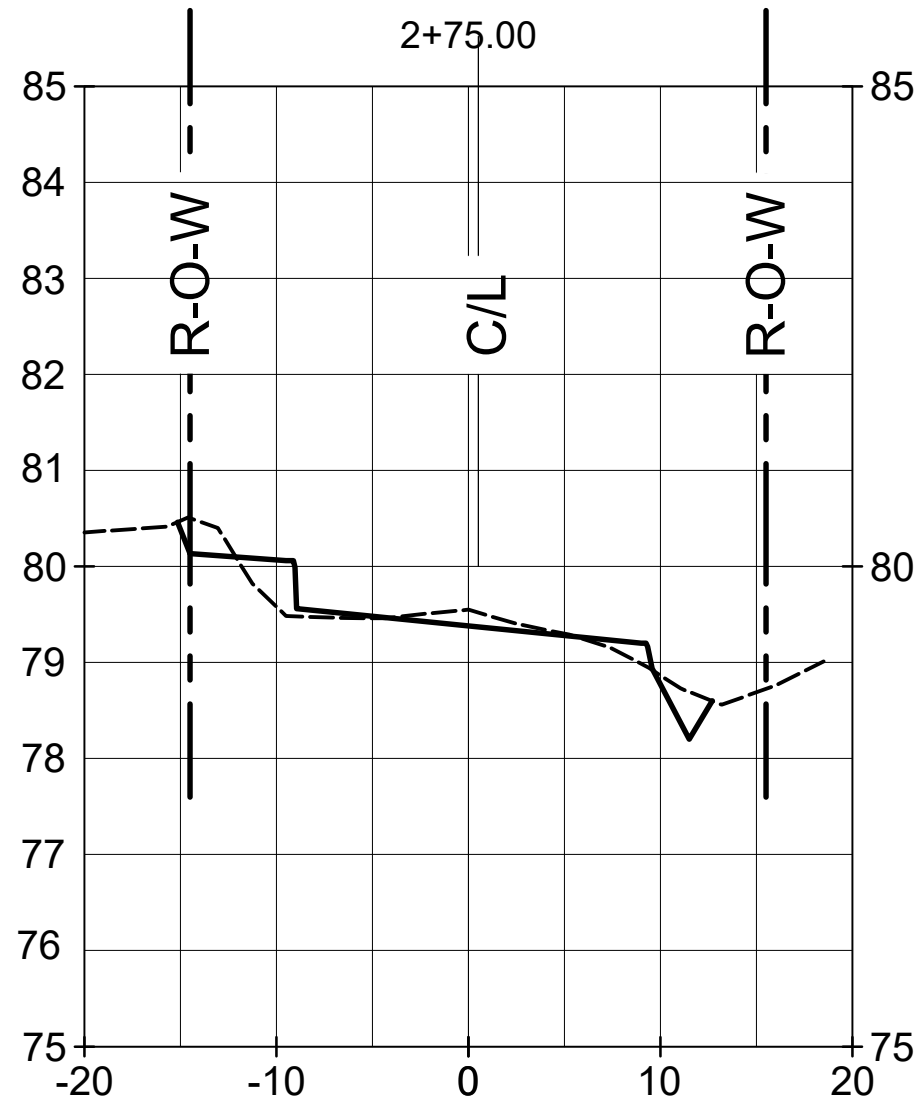


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	1 3/6/23 RPK ISSUED FOR CONSTRUCTION	SHEET NO. C07												
														7 OF 11

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NOTE:
THE ROADWAY CENTERLINE IS 0.5 FT RIGHT (NORTH) OF THE CENTER OF RIGHT-OF-WAY. SEE TYPICAL STREET SECTION, DETAIL 1, SHEET C10



CROSS-SECTIONS

SCALE: HORIZONTAL 1" = 10' VERTICAL 1" = 2'

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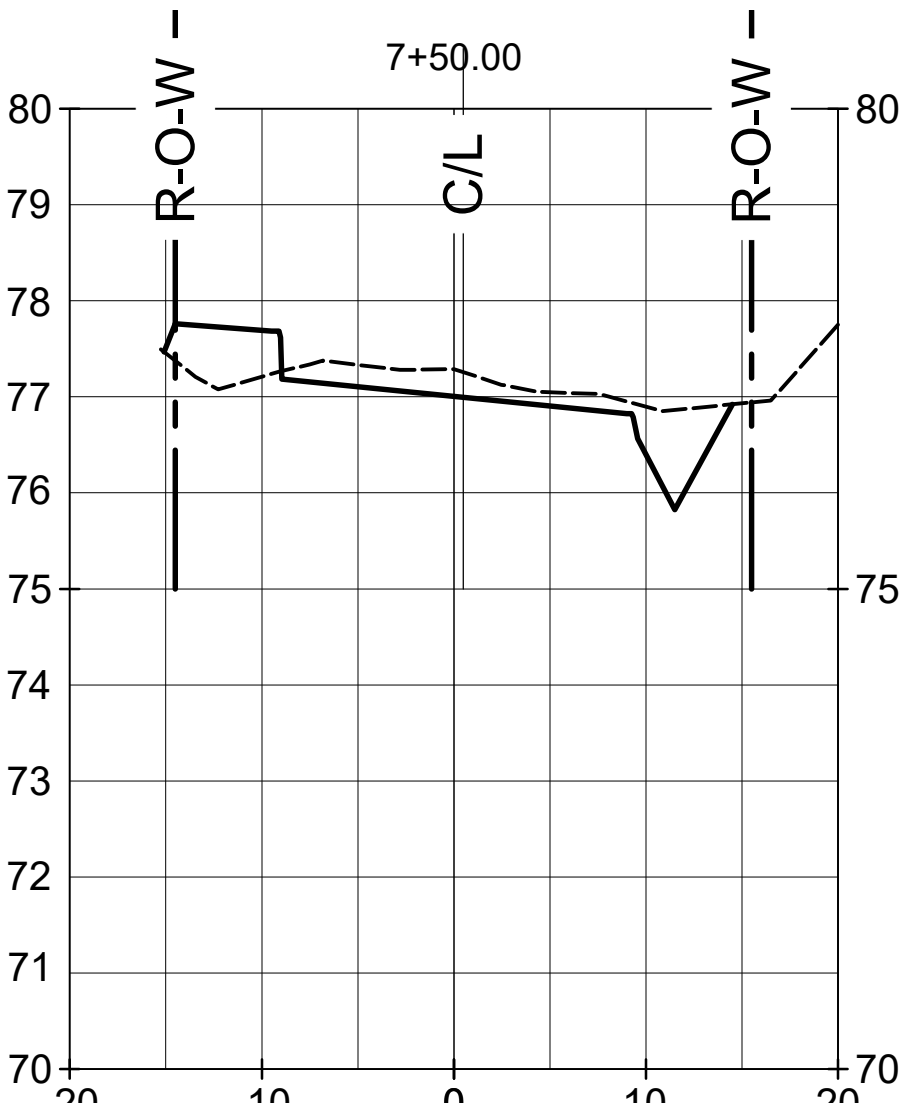
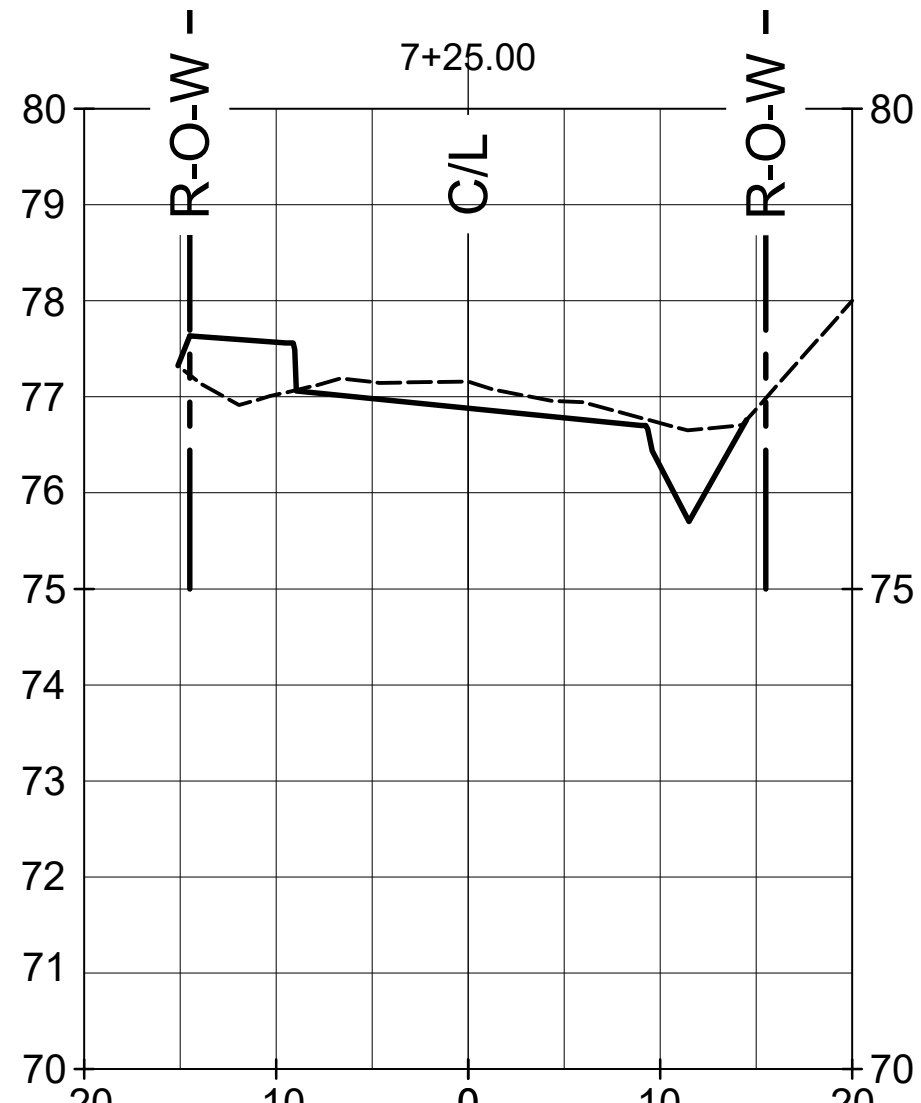
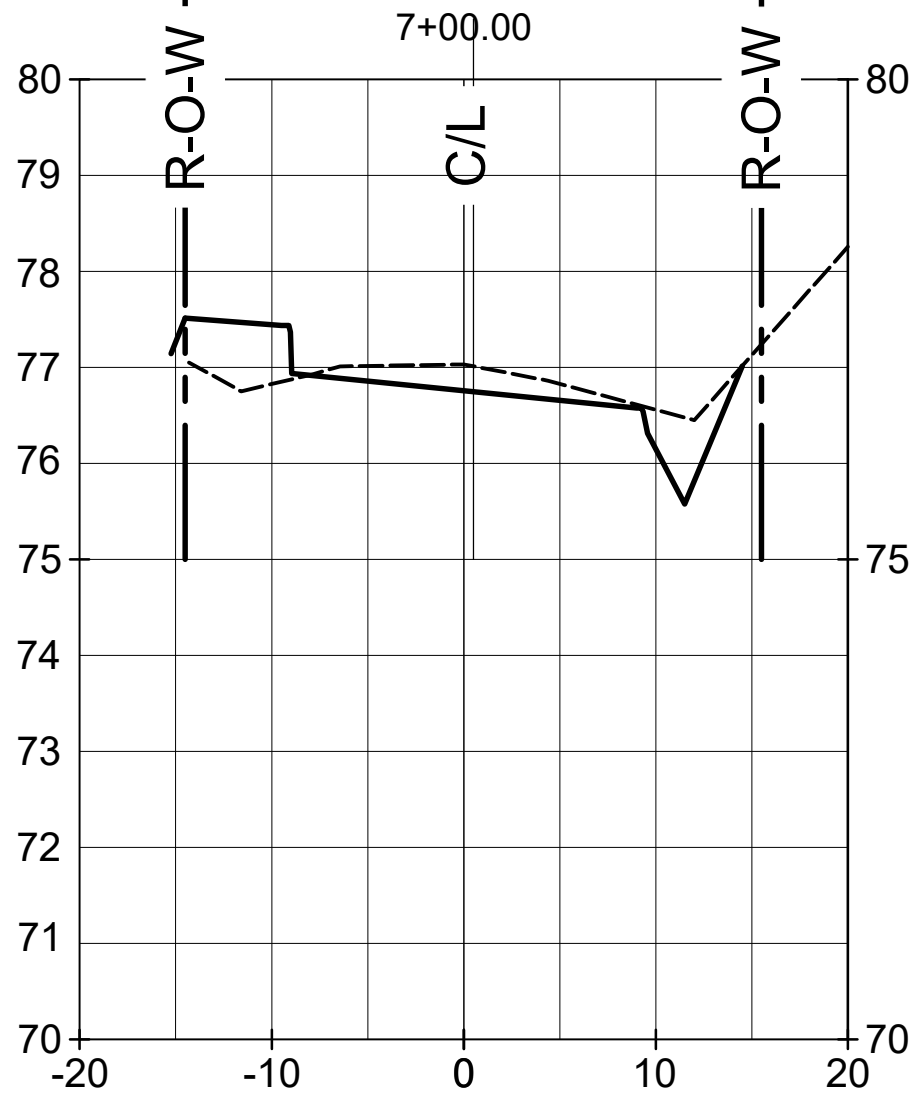
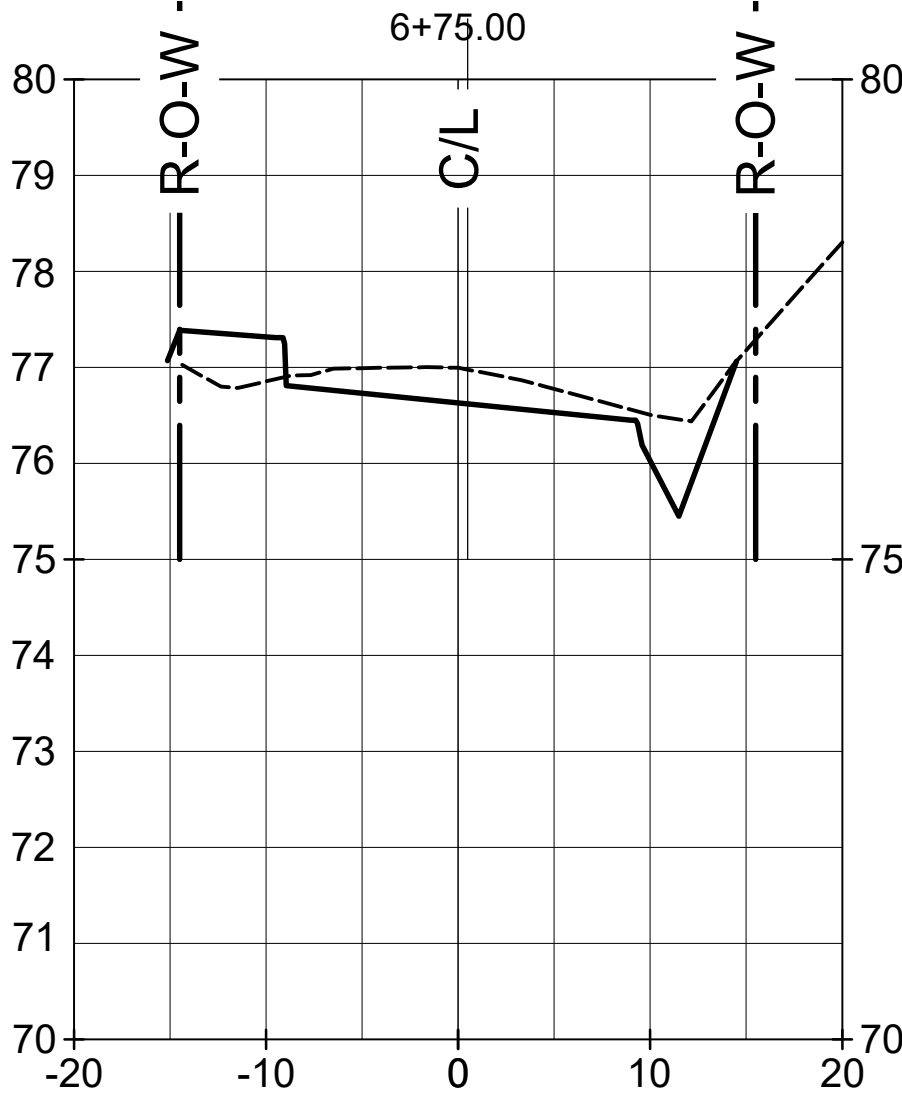
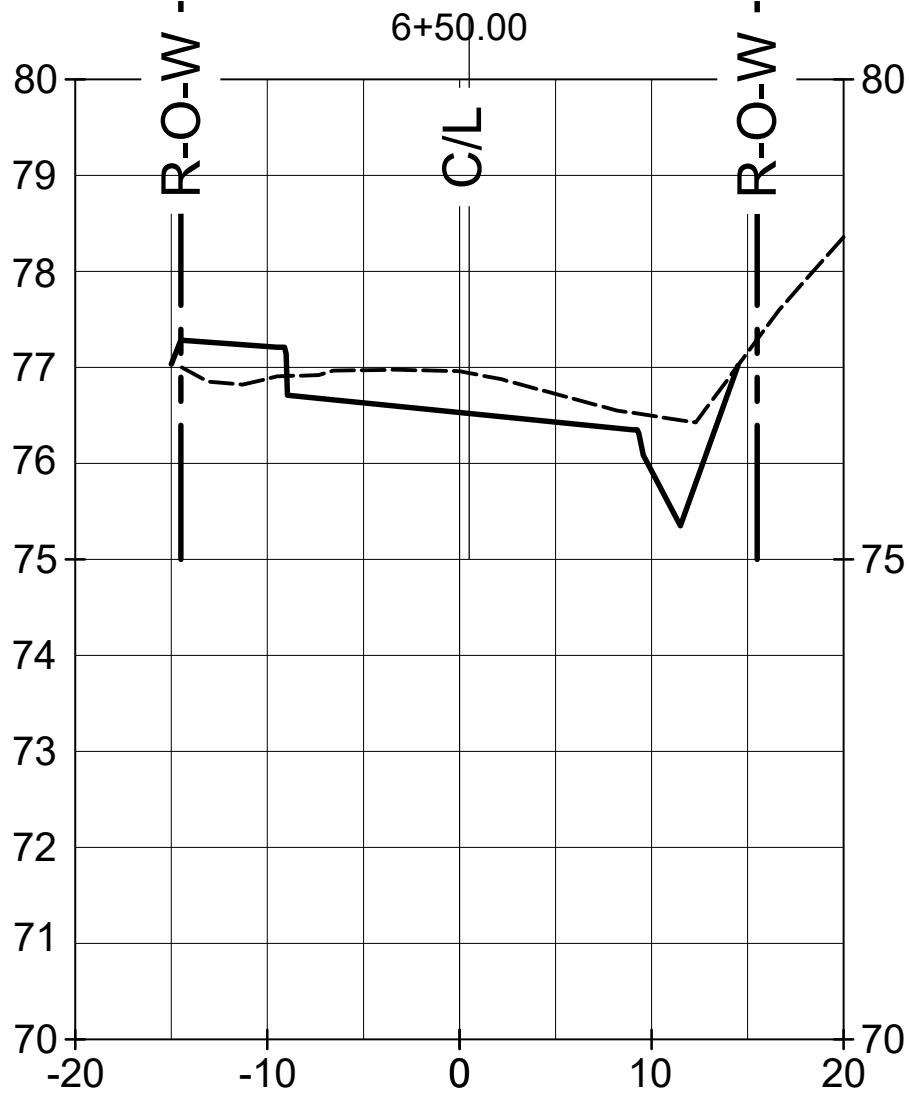
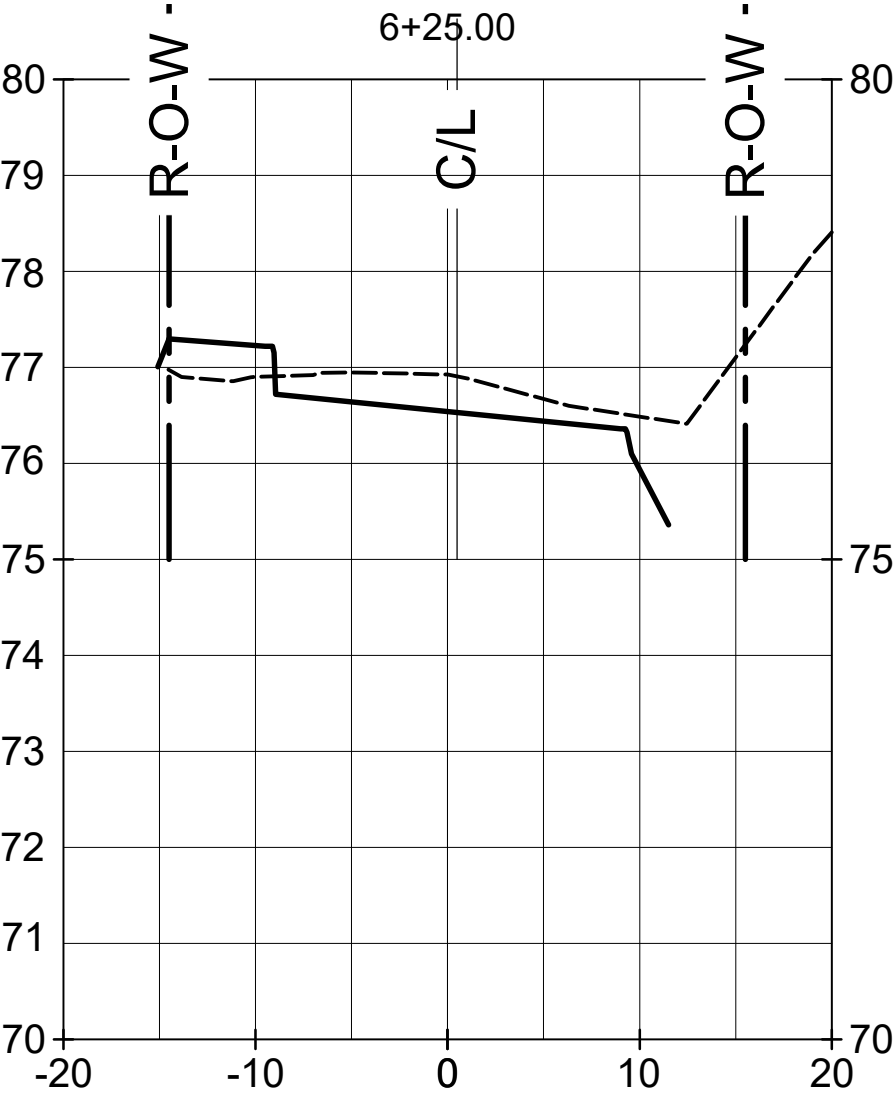
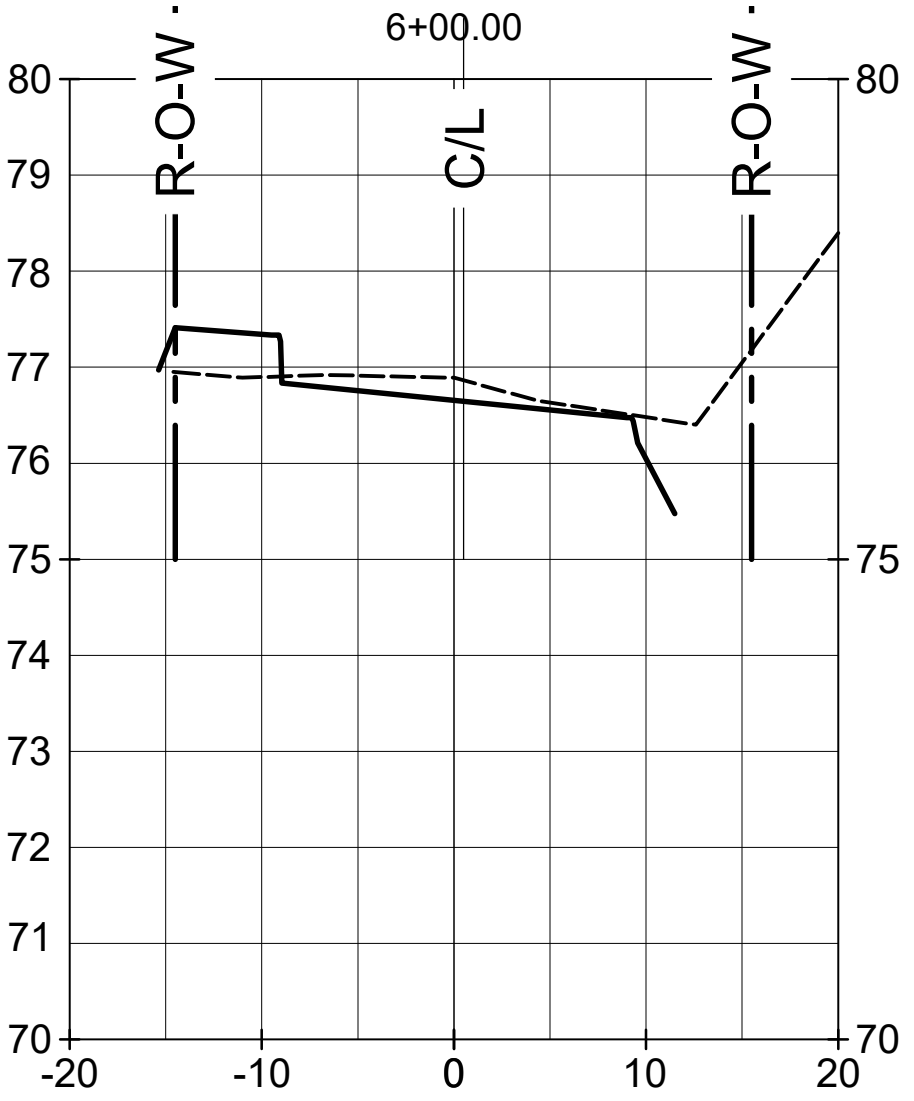
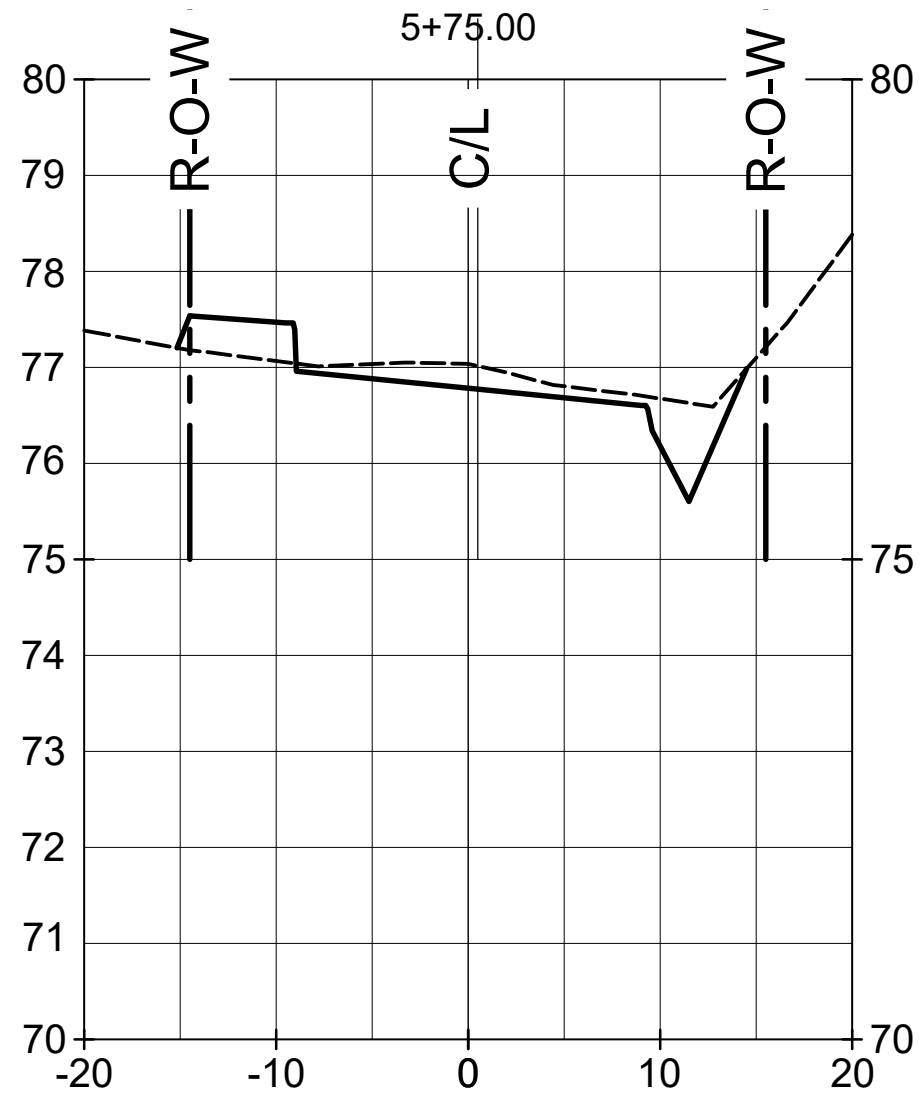
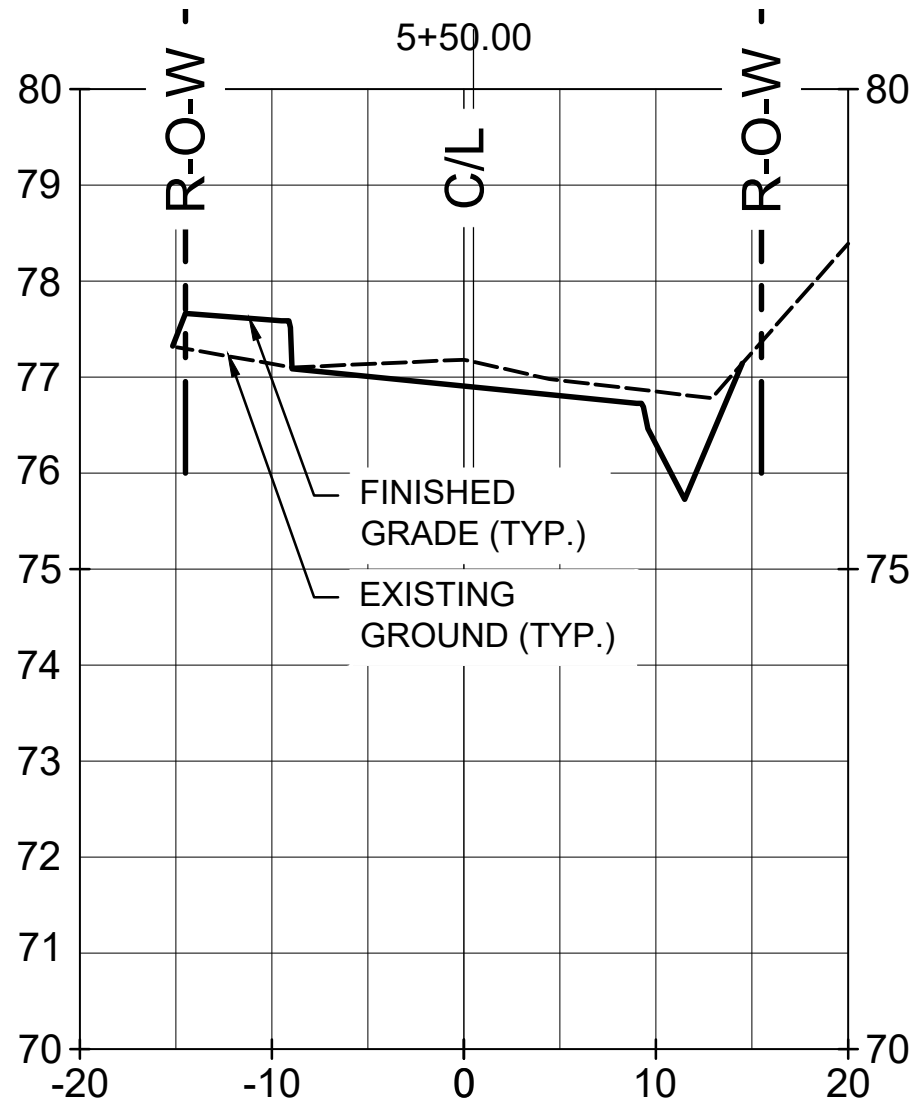
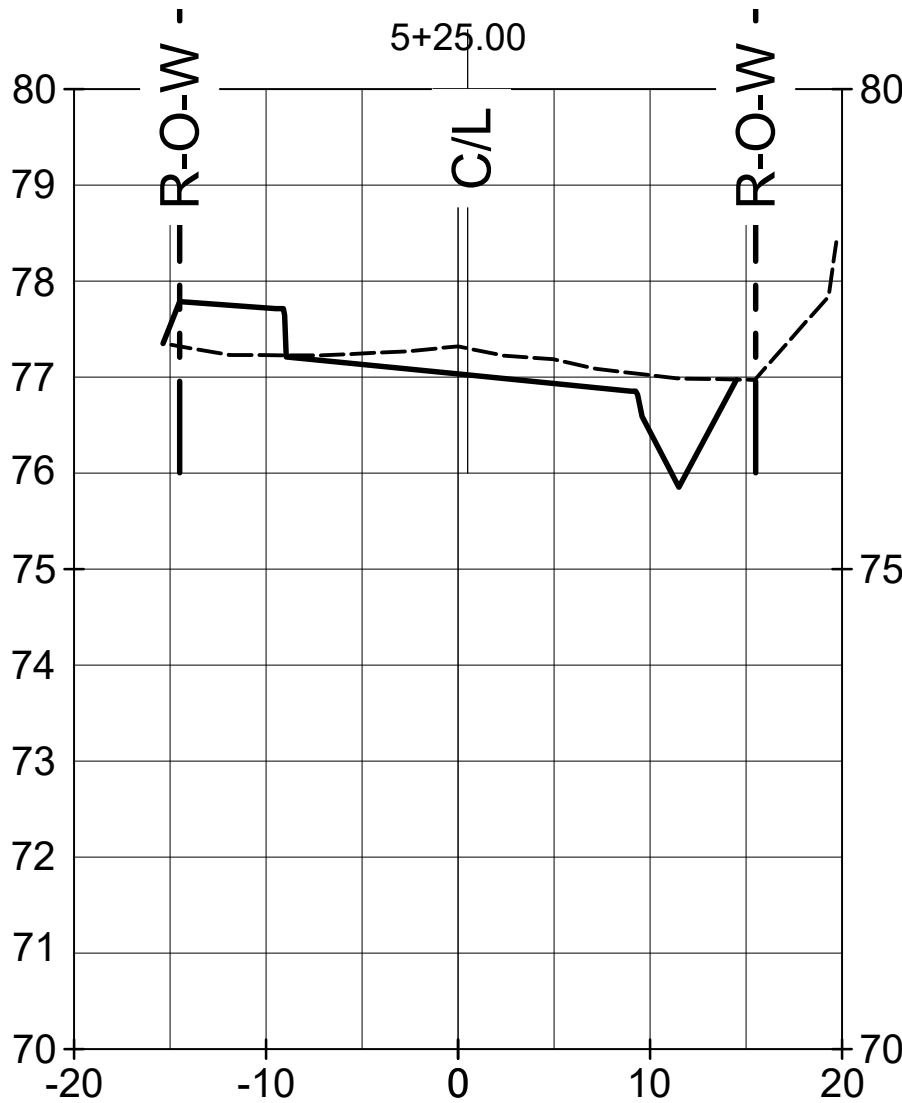
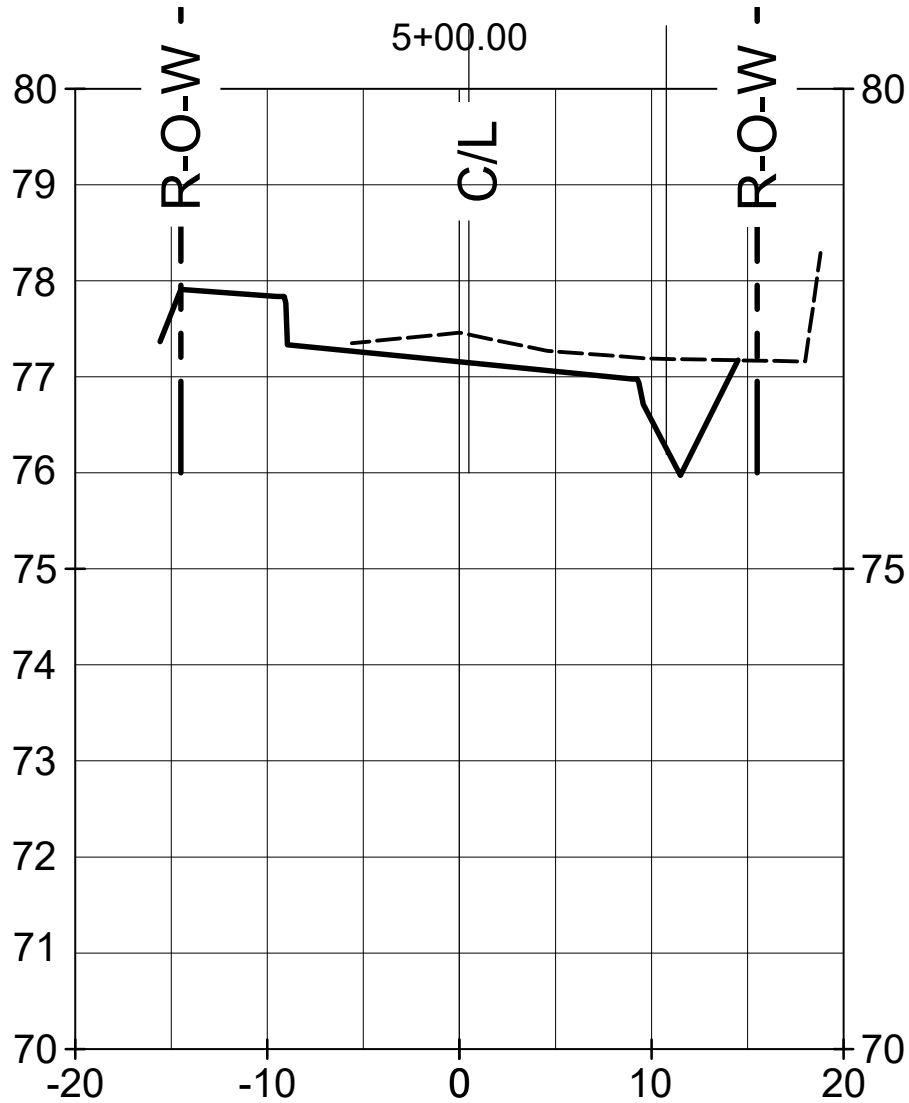
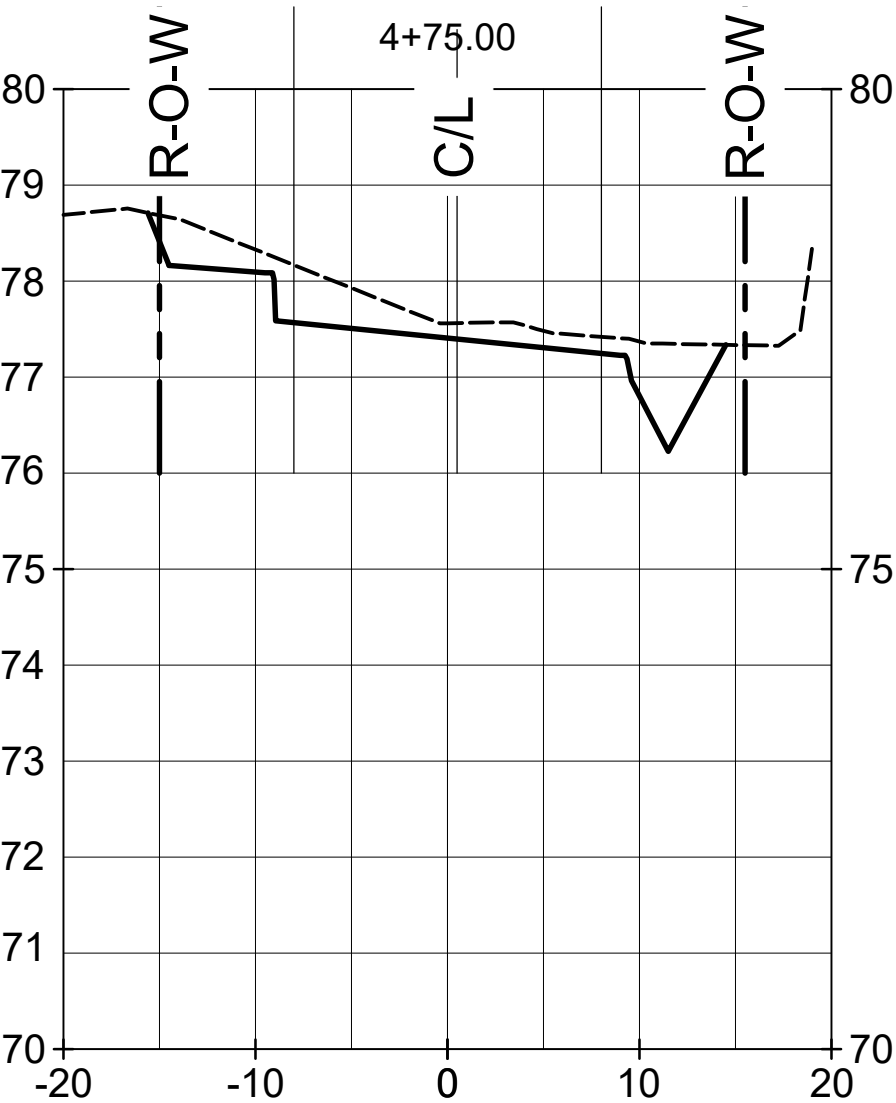
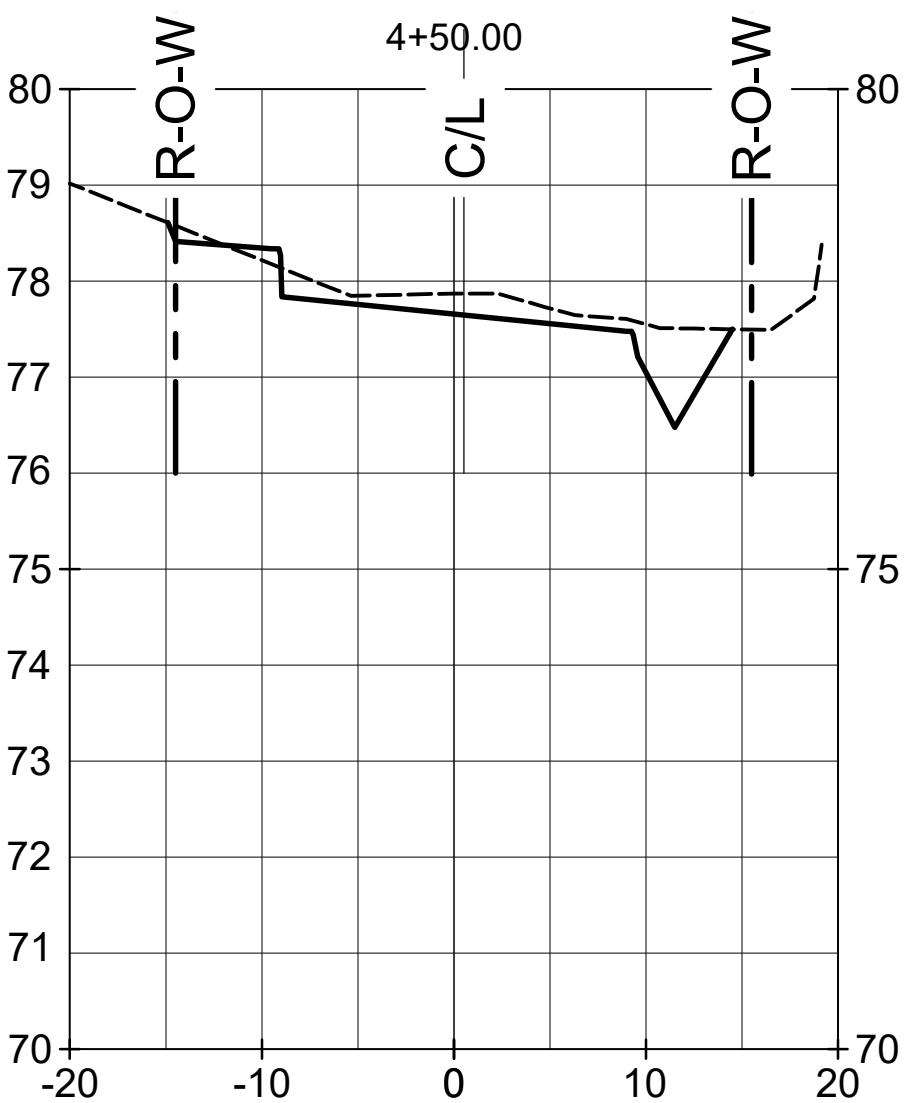
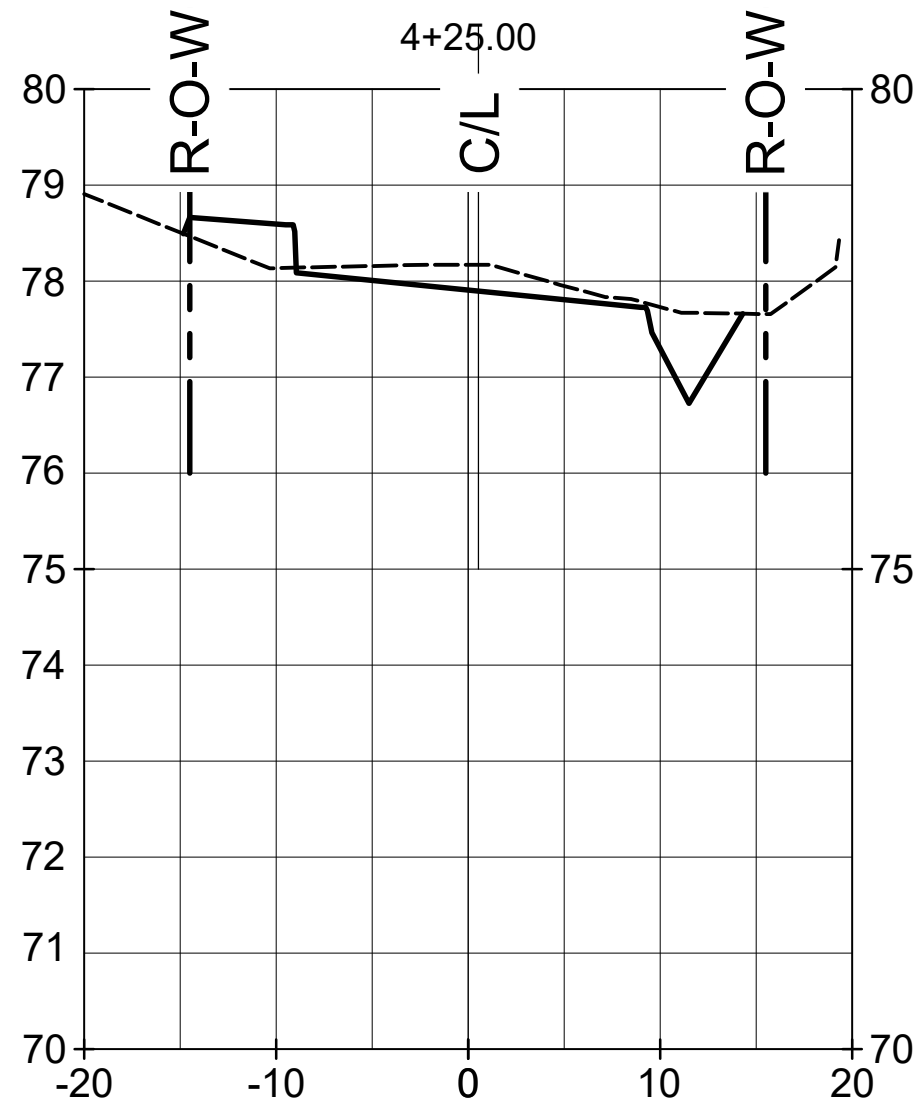
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RPV DRAWN BY
HJF CHECKED BY
03/10/2023 DRAWING DATE



W. ASH STREET IMPROVEMENTS
ROADWAY CROSS SECTIONS
STA 1+50 TO 4+00

JOB NO. AKANA 21-043
SHEET NO. C08
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NOTE:

THE ROADWAY CENTERLINE IS 0.5 FT RIGHT
(NORTH) OF THE CENTER OF RIGHT-OF-WAY.
SEE TYPICAL STREET SECTION, DETAIL 1,
SHEET C10

CROSS-SECTIONS

SCALE: HORIZONTAL 1" = 10' VERTICAL 1" = 2'

BAR IS ONE INCH ON ORIGINAL DRAWING.
IF NOT ONE INCH ON THIS SHEET, ADJUST
SCALES ACCORDINGLY.

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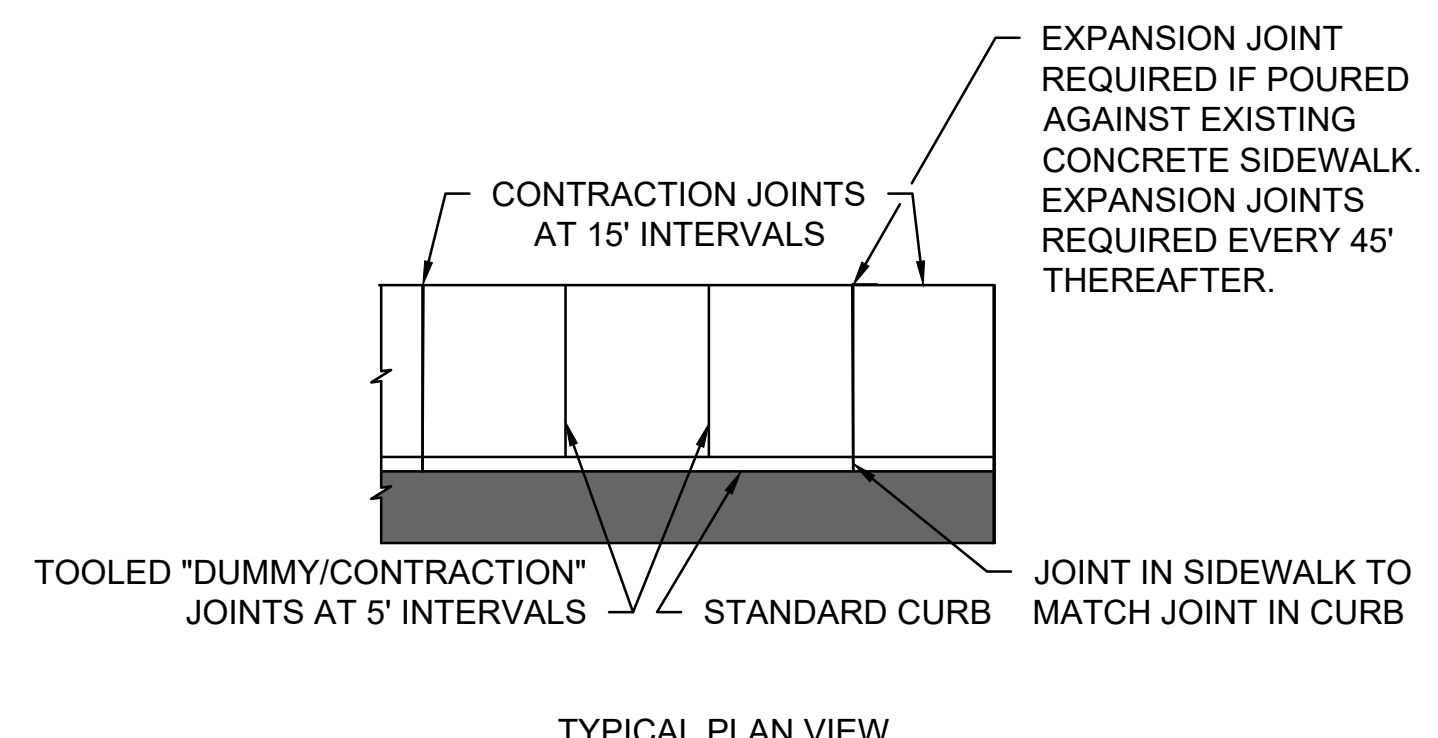
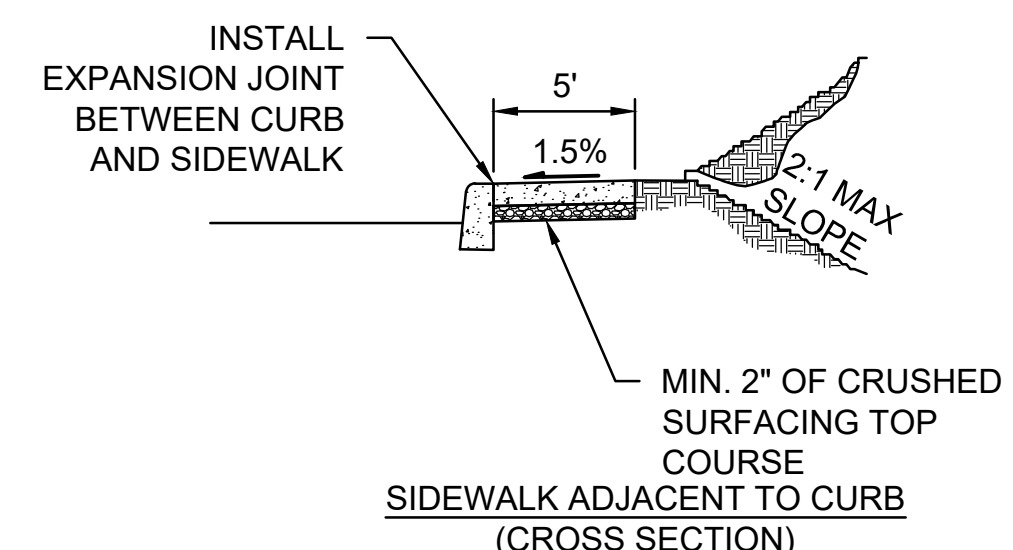
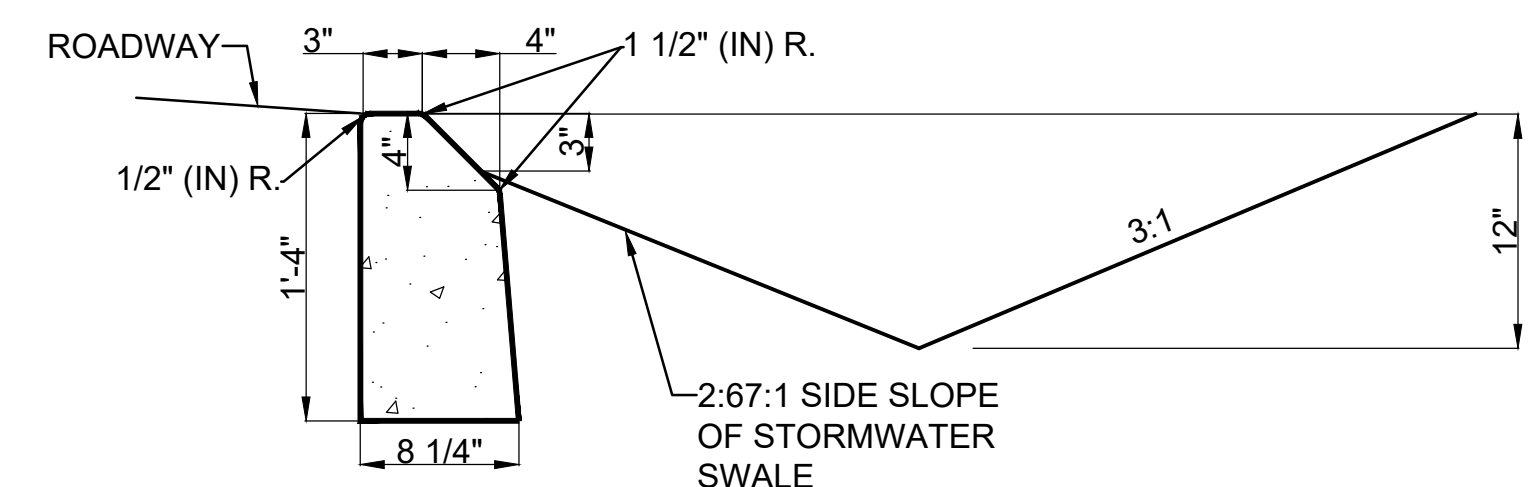
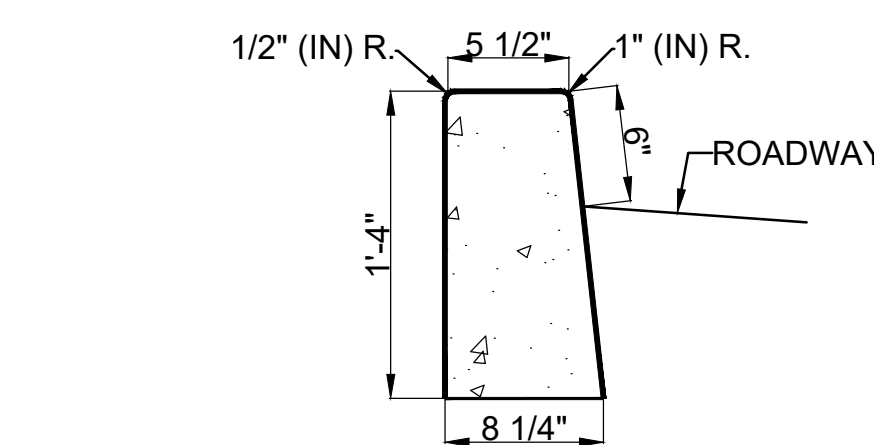
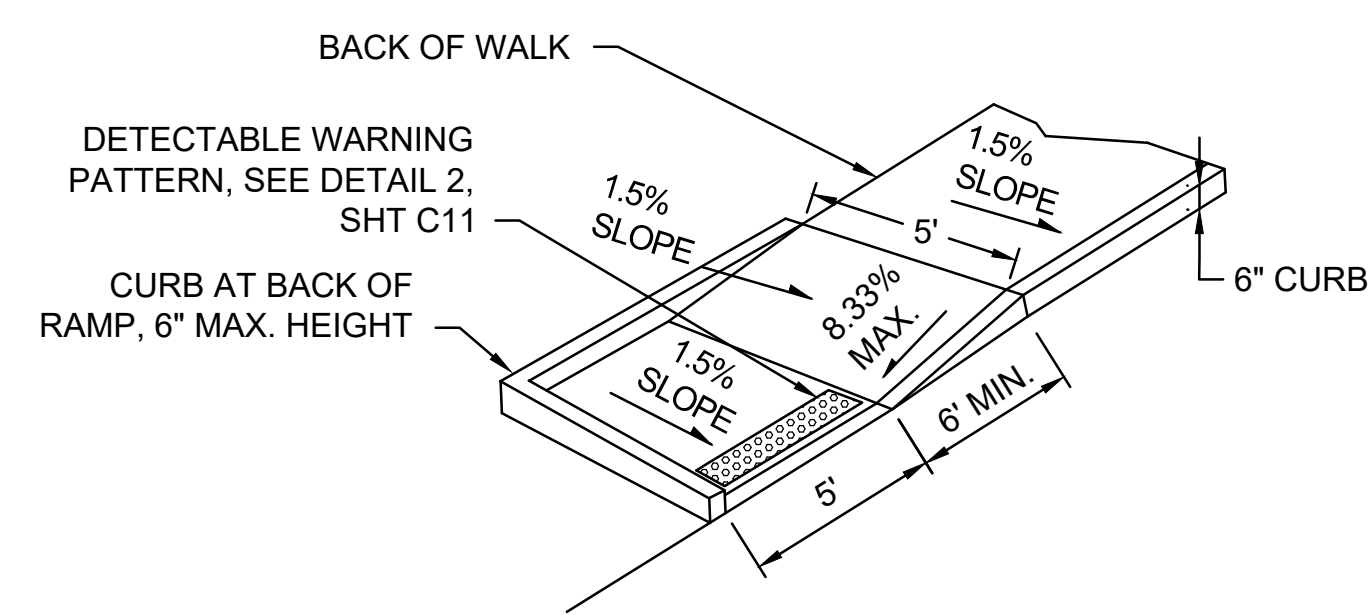
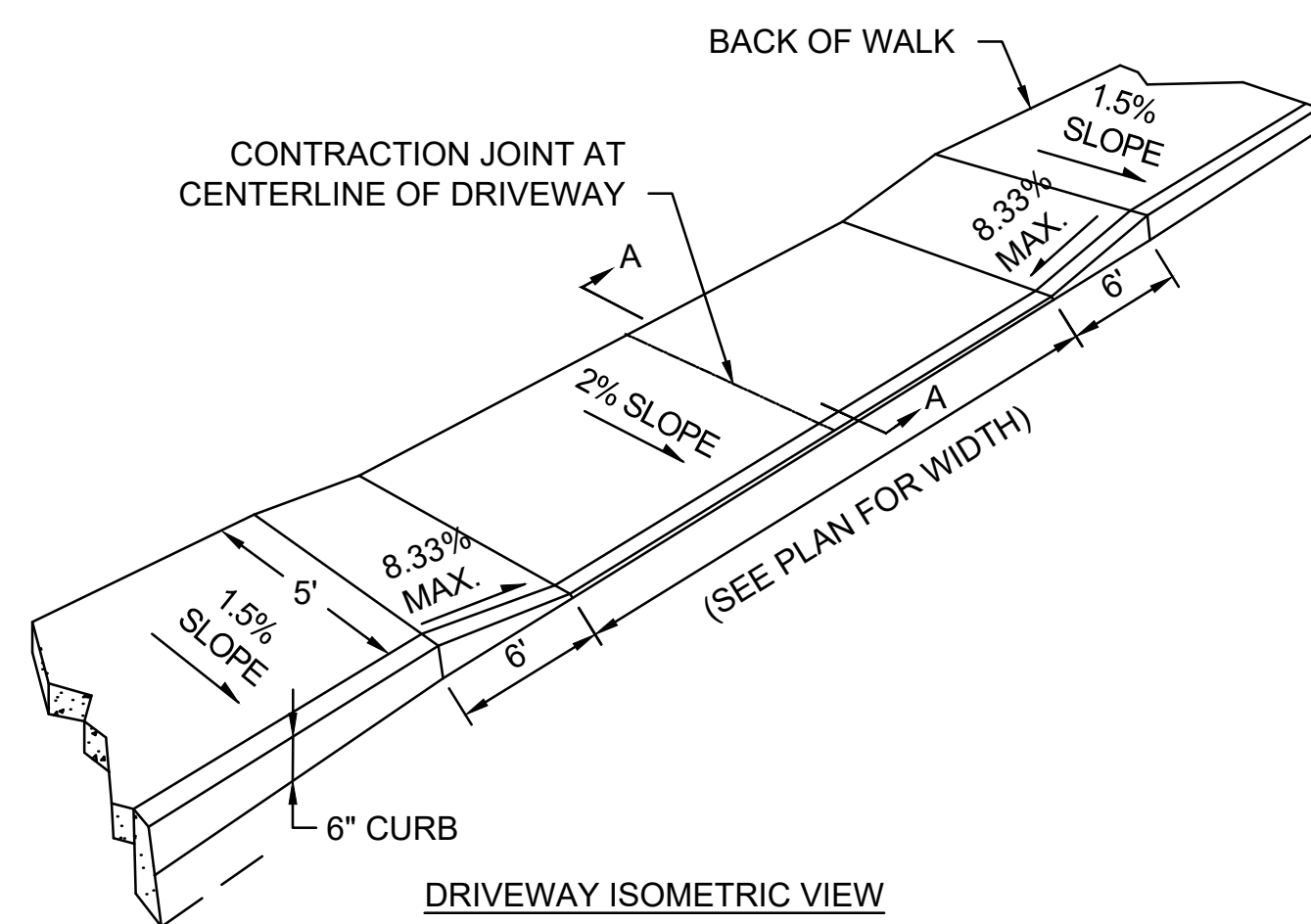
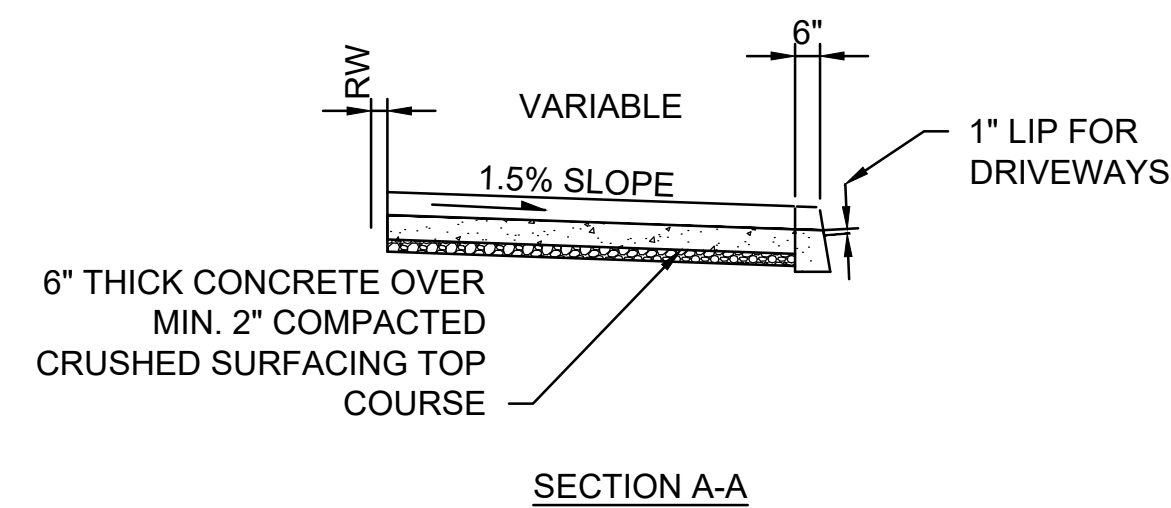
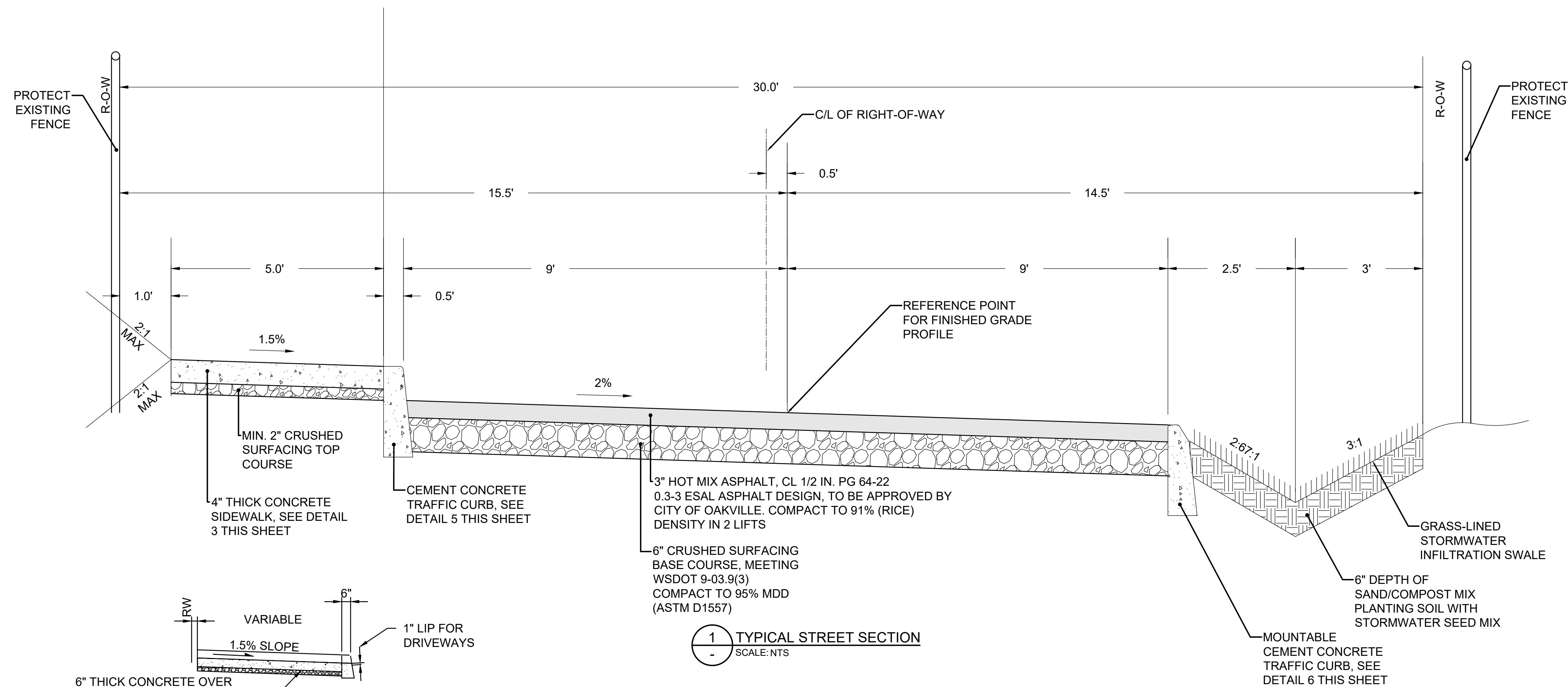
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W. ASH STREET IMPROVEMENTS
ROADWAY CROSS SECTIONS
STA 4+25 TO 7+50

JOB NO.
AKANA 21-043
SHEET NO.
C09
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- GENERAL NOTES**
1. CONCRETE: 3300 PSI @ 28 DAYS. SLUMP RANGE OF 1.5" TO 3" MAX.
 2. MINIMUM SIDEWALK THICKNESS SHALL BE 4"; IN DRIVEWAY APPROACH AREAS, IT MUST BE NO LESS THAN 6" THICK.
 3. SIDEWALKS SHALL BE COATED WITH APPROVED CURING COMPOUND.
 4. ALL SURFACES ARE TO BE TROWELLED AND BROOMED IN A WORKMAN LIKE MANNER.
 5. EXPANSION JOINTS ARE REQUIRED AT SIDES OF DRIVEWAY APPROACHES AND UTILITY VAULTS. DISTANCES BETWEEN EXPANSION JOINTS SHALL BE AT 45'.
 6. SIDEWALKS SHALL COMPLY WITH AMERICANS WITH DISABILITIES ACT (ADA) STANDARDS. ANY SIDEWALK CONSTRUCTED OUT OF COMPLIANCE WITH ADA REQUIREMENTS WILL BE SUBJECT TO REMOVAL AND REPLACEMENT AT NO COST TO THE OWNER OR PROJECT PROPONENT.



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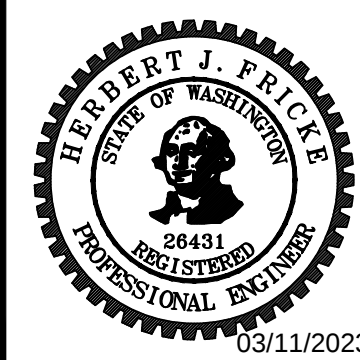
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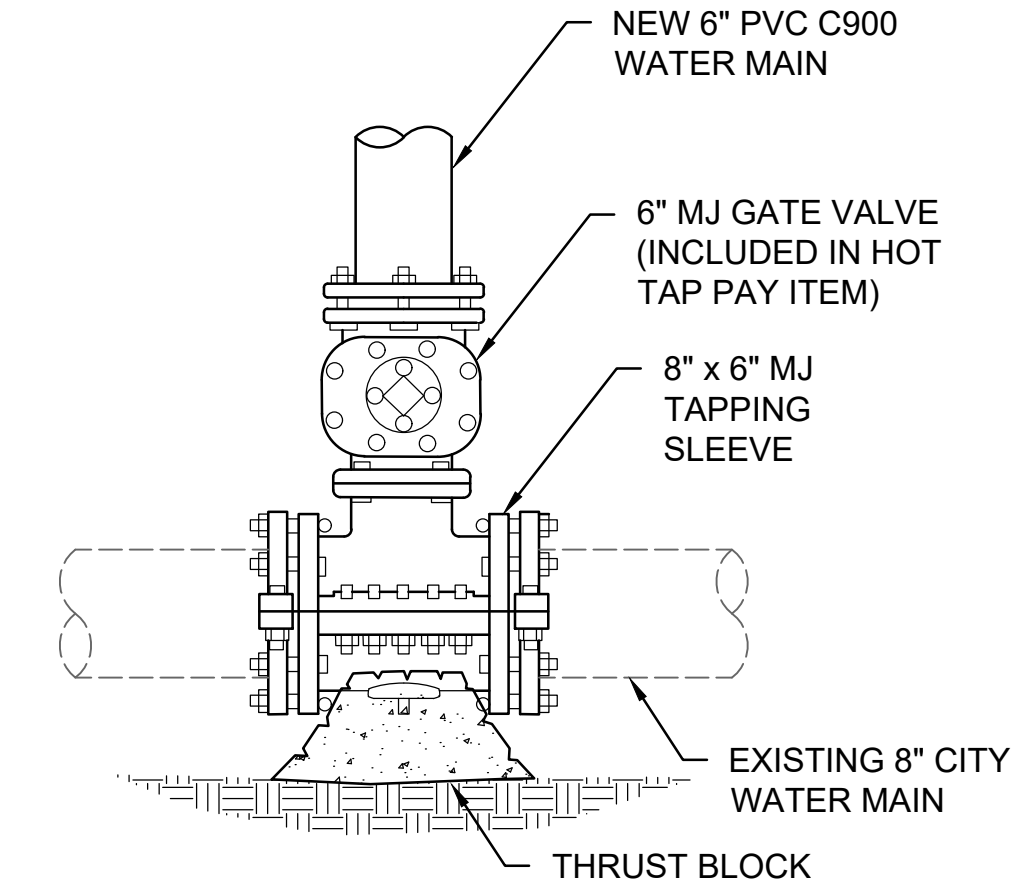
W. ASH STREET IMPROVEMENTS

DETAILS

JOB NO. AKANA 21-043

SHEET NO. C10

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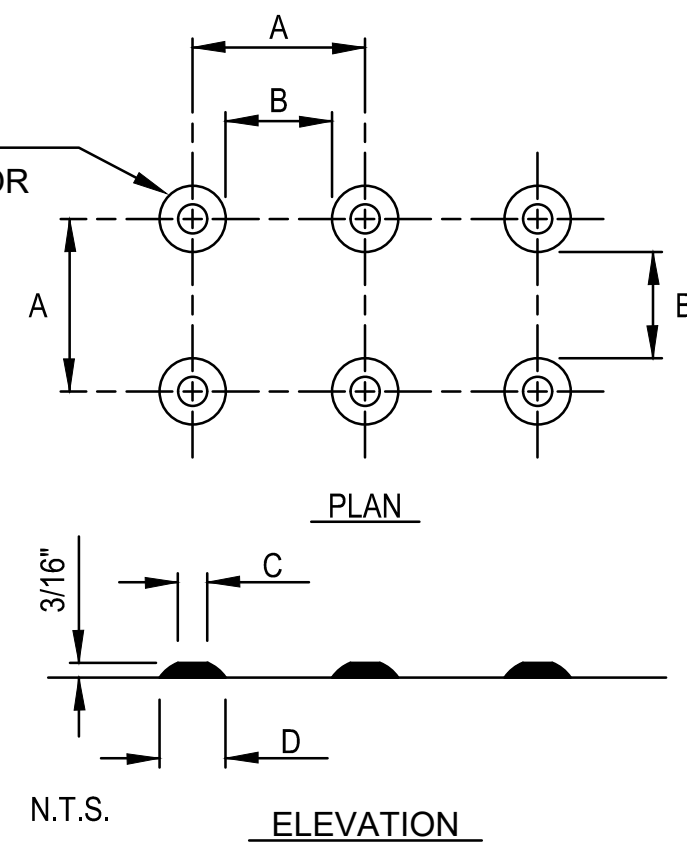


- NOTES:
- 1) NOTIFY TRIBAL REPRESENTATIVE AND CITY OF OAKVILLE NO LESS THAN THREE WORKING DAYS PRIOR TO MAKING TAP AND COORDINATE WITH CITY AS REQUIRED TO MAINTAIN WATER SERVICE DURING TAPPING OPERATION.
 - 2) CONCRETE TRUST BLOCK TO BE POURED AGAINST UNDISTURBED EARTH.

1 HOT-TAP OF EXISTING WATER MAIN
SCALE: NTS

DETECTABLE WARNING PATTERN AREA COLOR SHALL BE IN COMPLIANCE WITH ADA VISUAL CONTRAST REQUIREMENTS. COLOR SHALL BE APPROVED BY THE CONTRACTING OFFICER REPRESENTATIVE PRIOR TO INSTALLATION.

	MIN.	MAX.
A	1 5/8"	2 3/8"
B	5/8"	1 1/2"
C	7/16"	3/4"
D	7/8"	1 7/16"

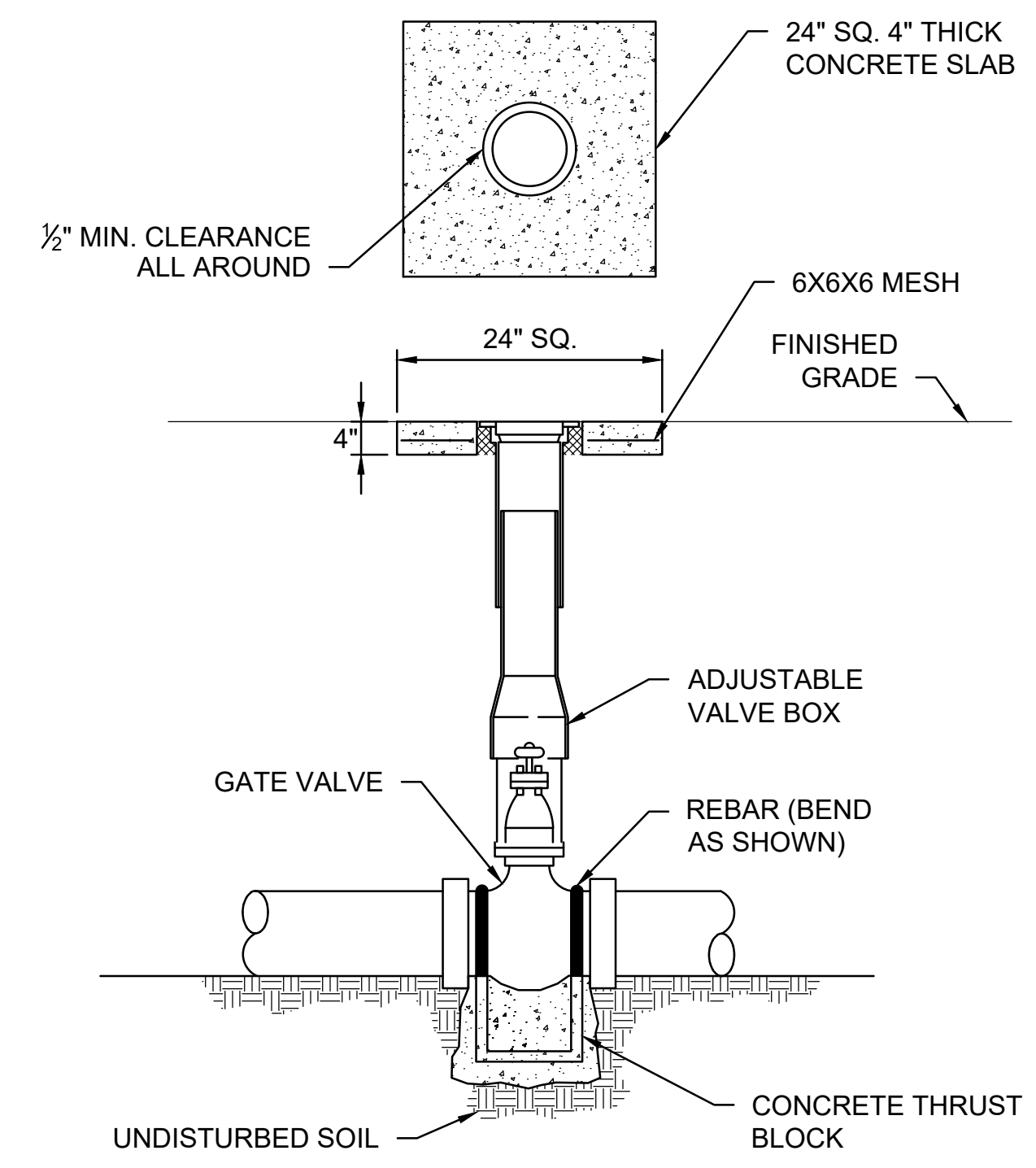


DETECTABLE WARNINGS SHALL BE INSTALLED PER MANUFACTURES RECOMMENDED PROCEDURES.

PLACE TRUNCATED DOME DETECTABLE WARNING TEXTURE IN THE LOWER 24" OF THE THROAT OF THE RAMP ONLY. ARRANGE DOMES USING IN-LINE PATTERN ONLY AS SHOWN IN DETAIL RIGHT. COLOR OF TEXTURE TO BE SAFETY YELLOW. FOR CONSTRUCTION OF SIDEWALK RAMPS OUTSIDE OF PUBLIC RIGHT-OF-WAY, CHECK WITH STATE BUILDING CODES.

2 DETECTABLE WARNING PATTERN DETAIL
SCALE: NTS

3 NOT USED
SCALE: NTS

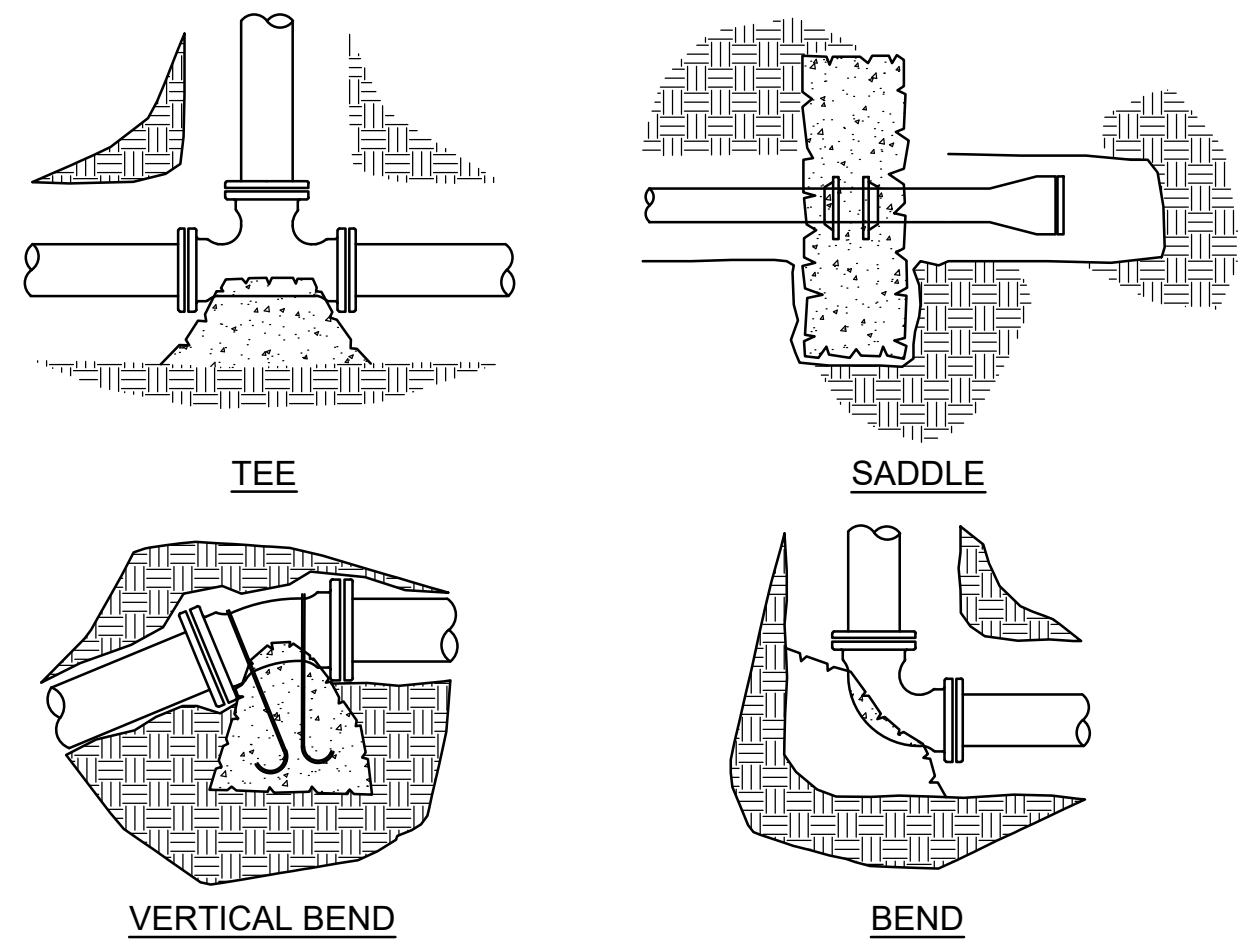


4 GATE VALVE WITH BOX
SCALE: NTS

(HORIZONTAL)
BEARING AREA OF THRUST BLOCKS IN SQ. FT.

FITTING SIZE	TEE	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND
4	1.3	1.8	1.0	1.0	1.0
6	2.8	4.0	2.2	1.1	1.0
8	5.0	7.1	3.8	2.0	1.0
12	11.3	16.0	8.7	4.4	2.2
16	20.1	28.4	15.4	7.8	3.9
20	31.1	44.4	24.0	12.3	6.2
24	45.2	64.0	34.6	17.7	8.9

VALUES BASED ON 200 PSI WATER PRESSURE AND 2000 PSF SOIL BEARING CAPACITY.



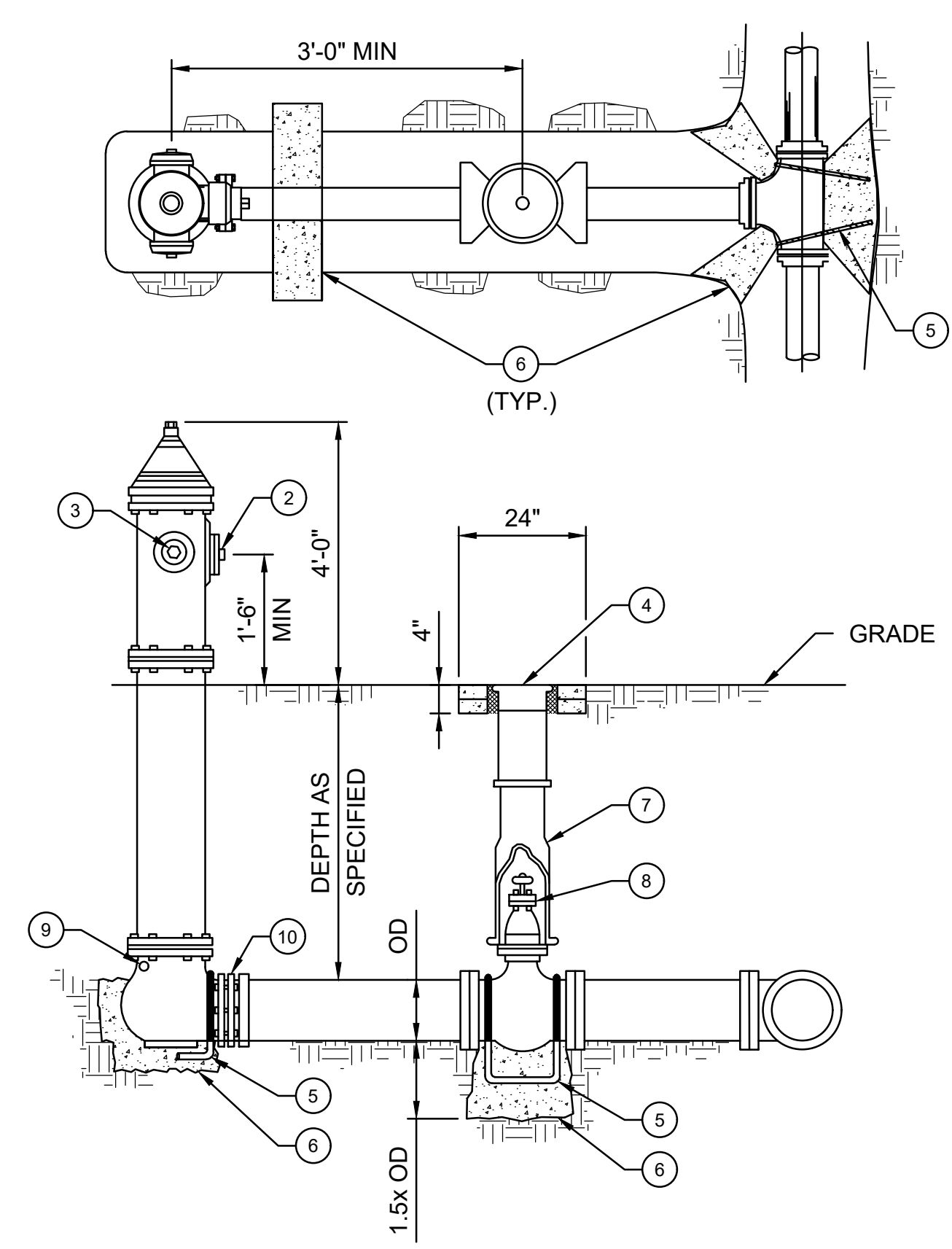
5 THRUST BLOCK DETAIL
SCALE: NTS

- NOTES:
- 1) THRUST BLOCKING AT ALL TEES, BENDS AND ENDS OF PIPING.
 - 2) CONCRETE BLOCKING TO BE POURED AGAINST UNDISTURBED EARTH.
 - 3) ALL CONCRETE TO BE CLASS 3000.
 - 4) INSTALL 12 MIL TOTAL THICKNESS POLYETHENE SHEET AROUND FITTING. SECURE SHEET ENDS TO PREVENT INFILTRATION OF DIRT BETWEEN SHEETS AND PIPE FITTING PRIOR TO POURING THRUST BLOCKING.
 - 5) PROTECT MECHANICAL JOINT FOLLOWERS AND BOLTS FROM CONCRETE WITH TEMPORARY FORMS AND POLYETHENE SHEETING SEE NOTE 3.

VOLUME OF THRUST BLOCK IN CU. YDS. (VERTICAL)

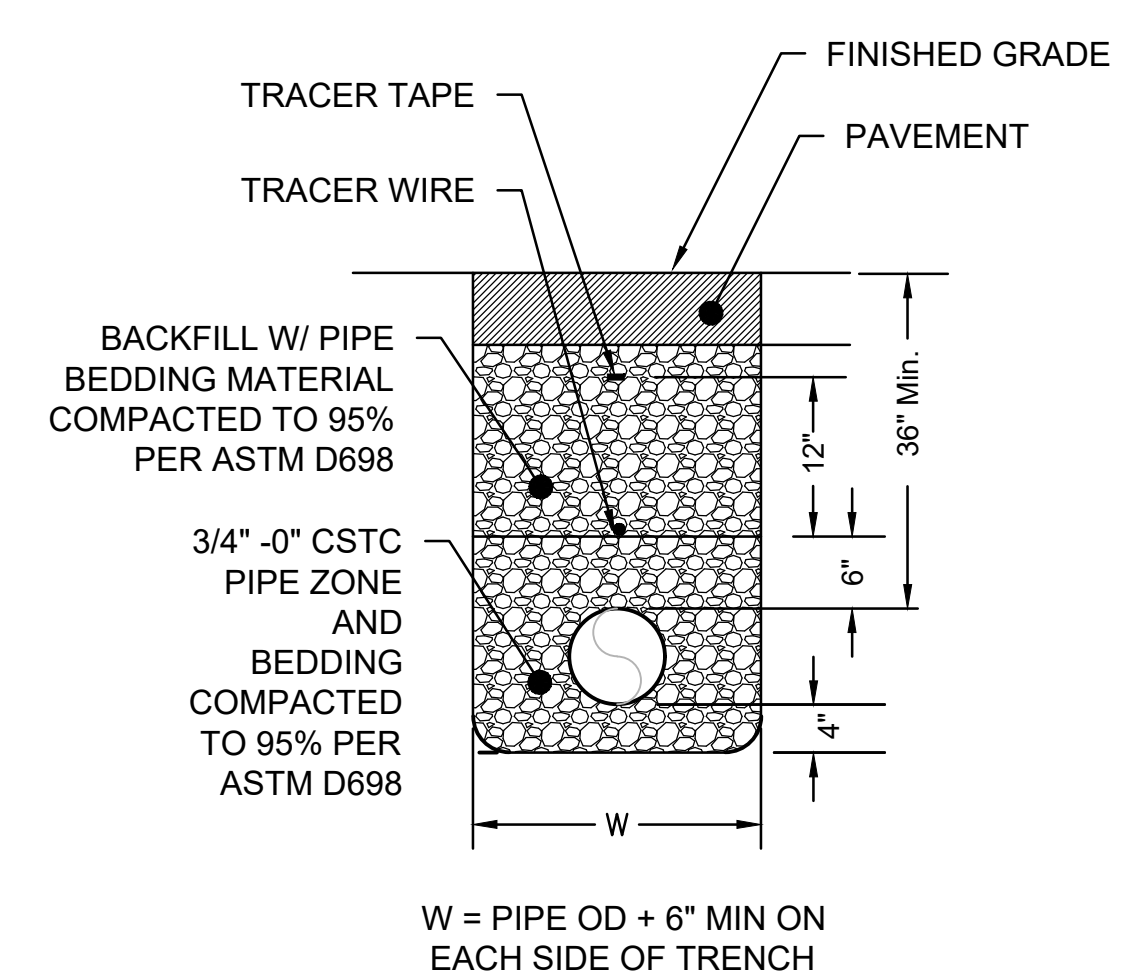
FITTING SIZE	BEND ANGLE		
	45°	22.5°	11.25°
4	1.1	0.4	0.2
6	2.7	1.0	0.4
8	4.0	1.5	0.6
12	8.5	3.2	1.3
16	14.8	5.6	2.3

FITTING SIZE	ROD SIZE	EMBEDMENT
4"-12"	#6	30"
14"-16"	#8	36"



6 FIRE HYDRANT ASSEMBLY DETAIL
SCALE: NTS

- 1 FIRE HYDRANT w/ TRAFFIC
- 2 PUMPER CONNECTION WITH 5" STORZ 1/4 TURN FITTING (NST ON 4 1/2" PORT) HARRINGTON 125 - 5" OR APPROVED EQUAL
- 3 2 1/2" HOSE CONNECTION
- 4 24"x24" CONCRETE COLLAR w/ COVER
- 5 #4 REBAR, BENT AS SHOWN
- 6 CONCRETE THRUST BLOCK, POUR AGAINST UNDISTURBED EARTH
- 7 ADJUSTABLE GATE VALVE BOX
- 8 GATE VALVE
- 9 WEEP HOLE - DO NOT BLOCK
- 10 MECHANICAL JOINT



7 WATER LINE TRENCH AND BACKFILL DETAIL
SCALE: NTS

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