





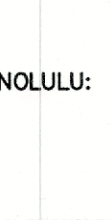


1. THE SCOPE OF WORK FOR THIS PROJECT INCLUDES SEWER LINE INSTALLATION AND CONNECTIONS.
2. THE CONTRACTOR, AT HIS OWN EXPENSE, SHALL KEEP THE PROJECT AND SURROUNDING AREAS FREE FROM DUST NUISANCES. THE WORK SHALL BE IN CONFORMANCE WITH THE AIR POLLUTION CONTROL RULES OF THE STATE DEPARTMENT OF HEALTH, HAR 11-60.1, FUGITIVE DUST.
3. THE CONTRACTOR SHALL PROVIDE A SMOOTH-RIDING CONNECTION TO EXISTING STREETS AND DRIVEWAYS.
4. EXISTING UTILITIES SHALL REMAIN IN SERVICE DURING CONSTRUCTION.
5. IN PERFORMING ALL WORK, THE CONTRACTOR SHALL EXERCISE DUE CARE AND CAUTION NECESSARY TO AVOID ANY DAMAGE TO AND IMPAIRMENT IN THE USE OF ANY EXISTING UTILITY LINE. ANY DAMAGE INFLICTED ON EXISTING UTILITY LINES RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE IMMEDIATELY REPAIRED OR RESTORED AT THE CONTRACTOR'S EXPENSE.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE DONE TO THE DWS WATER SYSTEM, HAWAII GAS GAS LINES, HAWAIIAN TELCOM SYSTEM, HELCO SYSTEM, OR OTHER UTILITY LINES (UNDERGROUND OR OVERHEAD).
7. THE CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT.
8. THE CONTRACTOR SHALL TONE AND PROBE THE AREA PRIOR TO ALL EXCAVATION AND TRENCHING TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR THE REPAIR OR REPLACEMENT OF SAME IN THE EVENT OF DAMAGES DUE TO HIS CONSTRUCTION PRACTICES. WHENEVER CONNECTIONS OF NEW UTILITIES TO EXISTING UTILITIES ARE SHOWN ON THE PLANS, THE CONTRACTOR SHALL EXPOSE THE EXISTING LINES AT THE PROPOSED CONNECTIONS TO VERIFY THEIR LOCATIONS, DEPTHS AND ASSURE THAT CONNECTIONS CAN BE MADE PRIOR TO EXCAVATION FOR THE NEW LINES AT NO COST TO THE OWNER. ANY NECESSARY ADJUSTMENTS FOR THE NEW LINES TO ENSURE PROPER CONNECTIONS TO THE EXISTING SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
9. THE CONTRACTOR IS ADVISED THAT THE DEPTH TO THE EXISTING WATER LATERALS, GAS LINES, AND OTHER UTILITIES MAY BE SHALLOW. THE CONTRACTOR IS RESPONSIBLE FOR WORKING AROUND THE UTILITIES CAREFULLY AT NO ADDITIONAL COST TO THE OWNER. THESE UTILITIES SHALL REMAIN IN PLACE AND SHALL BE KEPT OPERATIONAL AT ALL TIMES.
10. ANY PAVEMENT, PAVEMENT MARKINGS, STRUCTURES, SIGNS AND OTHER APPURTENANCES DAMAGED BY THE CONTRACTOR AS A RESULT OF CONSTRUCTION OPERATIONS SHALL BE RESTORED TO ITS ORIGINAL, OR BETTER CONDITION.
11. THE CONTRACTOR SHALL VERIFY AND CHECK ALL DIMENSIONS AND DETAILS SHOWN ON THE DRAWINGS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCY SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER FOR CLARIFICATION.
12. THE CONTRACTOR SHALL NOTIFY ALL AGENCIES TO VERIFY THE ACTUAL LOCATION OF ALL UTILITIES IN THE PROJECT AREA PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE AND SCHEDULE ALL WORK WITH AGENCIES AND UTILITY COMPANIES. ALL UTILITY WORK WITH UNDERGROUND INSTALLATIONS MUST BE COMPLETED PRIOR TO PAVING WORK BEING DONE ABOVE THEM.
13. WORK INCIDENTAL TO THE CONTRACT AND NECESSARY TO COMPLETE THE PROJECT, ALTHOUGH NOT SPECIFICALLY REFERRED TO ON THE CONTRACT DOCUMENT, SHALL BE FURNISHED AND PERFORMED BY THE CONTRACTOR AT HIS OWN COST.
14. THE CONTRACTOR IS TO COMPLY WITH THE DIRECTIONS OF THE STATE OF HAWAII OCCUPATIONAL SAFETY AND HEALTH LAW (DOSH).
15. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN, FROM THE APPROPRIATE COUNTY AND STATE AGENCIES, ALL PERMITS REQUIRED TO COMPLETE THE WORK SHOWN ON THESE PLANS INCLUDING, BUT NOT LIMITED TO, AUTHORIZATION TO WORK WITHIN COUNTY RIGHT-OF-WAY AND CONNECT TO COUNTY SEWER, AND PLUMBING PERMIT.

1. ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH STANDARD DETAILS AND STANDARD SPECIFICATIONS OF THE DEPARTMENT OF PUBLIC WORKS, COUNTY OF HAWAII AND THE HAWAII STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND PUBLIC WORKS CONSTRUCTION, 2005 EDITION, UNLESS OTHERWISE SPECIFIED ON THE PLANS OR SPECIFICATIONS.
2. ALL CONSTRUCTION LINES, GRADES AND SURVEY MONUMENT STAKEOUTS SHALL BE MADE BY LICENSED SURVEYORS.
3. A LICENSED SURVEYOR SHALL SUBMIT A LETTER TO THE DEPARTMENT OF PUBLIC WORKS CERTIFYING THAT THE MONUMENT STAKEOUT AND INSTALLATION IS CORRECT.
4. THE CONTRACTOR SHALL CONDUCT ALL TESTS AS REQUIRED BY THE DPW AND/OR ENGINEER AND THE CONTRACT DOCUMENTS AND BE RESPONSIBLE FOR ALL EXPENSES INCURRED IN CONDUCTING THESE TESTS.

3. THE CONTRACTOR SHALL PROVIDE AT LEAST ONE (1) LANE FOR TRAFFIC MOVEMENT AT ALL TIMES. TWO (2) LANES FOR TRAFFIC MOVEMENT SHALL BE PROVIDED BETWEEN THE HOURS OF 3:00 P.M. AND 8:30 A.M. ALL INTERSECTIONS MUST REMAIN OPEN TO TRAFFIC AT ALL TIMES.
6. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, AND SHALL BE RESPONSIBLE FOR THE REPAIR OR REPLACEMENT OF SAME IN THE EVENT OF DAMAGES DUE TO HIS CONSTRUCTION PRACTICES. THE CONTRACTOR SHALL COORDINATE AND SCHEDULE HIS WORK WITH THE RESPECTIVE UTILITY COMPANIES AT NO ADDITIONAL COST. THE CONTRACTOR SHALL BE RESPONSIBLE IF NECESSARY IN RESCHEDULING HIS WORK AND ADJUSTING LABOR AND EQUIPMENTS TO ACCOMMODATE THE UTILITY WORK AT NO COST TO THE COUNTY.
7. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL TRAFFIC CONTROL DEVICES IN CONFORMANCE WITH THE CURRENT EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS," & AS DIRECTED BY THE DEPARTMENT OF PUBLIC WORKS.
8. ALL DIMENSIONS AND DETAILS SHOWN ON THE CONSTRUCTION DRAWINGS AND/OR SPECIFICATIONS SHALL BE CHECKED AND VERIFIED PRIOR TO THE START OF CONSTRUCTION, AND ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION.
9. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS 48 HOURS BEFORE THE COMMENCEMENT OF ANY UTILITY LINE WORK TO SCHEDULE A FIELD REVIEW AND SECURE APPROVAL OF THE PROPOSED UTILITY LINE LOCATION WITHIN THE COUNTY RIGHT-OF-WAY.
10. THE PROPOSED UTILITY LINE LOCATION SHALL BE LAID OUT IN THE FIELD PRIOR TO THE CONDUCTING OF THE FIELD REVIEW BY THE DEPARTMENT OF PUBLIC WORKS.
11. FIELD ADJUSTMENTS SHALL BE MADE AS DIRECTED BY THE DEPARTMENT OF PUBLIC WORKS PRIOR TO THE COMMENCEMENT OF ANY UTILITY LINE WORK.
12. THE REQUIRED PERMIT, UNDER CHAPTER 22, ARTICLE 4, SECTION DIVISION I OF THE HAWAII COUNTY CODE, SHALL BE OBTAINED FROM THE DEPARTMENT OF PUBLIC WORKS BY THE CONTRACTOR FOR WORK WITHIN THE COUNTY RIGHT-OF-WAY.
13. THE EXISTING PAVEMENT SHALL BE SAW-CUT BEFORE COMMENCEMENT OF TRENCHING WORK. THIS IS INCIDENTAL TO THE TRENCHING.
14. ANY PAVEMENT OUTSIDE THE CONTRACT ZONE LIMITS DAMAGED AS A RESULT OF CONSTRUCTION OPERATIONS SHALL BE RESTORED TO ITS ORIGINAL CONDITION, OR BETTER, AS DIRECTED BY THE DPW.
15. THE EXISTING IMPROVEMENTS ON THE PROJECT LIMITS AND IN ADJACENT AREAS THAT ARE NOT TO BE REMOVED SHALL BE PRESERVED AND PROTECTED. ANY AND ALL DAMAGES RESULTING FROM THE CONTRACTOR'S CONSTRUCTION OPERATIONS SHALL BE REPLACED AND REPAIRED TO THE ORIGINAL OR BETTER CONDITION, TO THE SATISFACTION OF THE OWNER AND PAID FOR BY THE CONTRACTOR. THE CONTRACTOR SHALL OBTAIN A WRITTEN APPROVAL FROM EACH AFFECTED PROPERTY OWNER TO BE SUBMITTED TO THE ENGINEER.
16. A TEMPORARY COLD MIX PATCH SHALL BE APPLIED IMMEDIATELY UPON COMPLETION OF THE BACKFILLING OPERATION OR UPON PLATING OF TRENCH AND SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL A PERMANENT PATCH IS AUTHORIZED BY THE DEPARTMENT OF PUBLIC WORKS.
17. NO MATERIAL, EXCEPT THE TRENCH EXCAVATED MATERIAL, SHALL BE STOCKPILED CLOSER THAN SIX (6) FEET FROM THE EXISTING EDGE OF PAVEMENT.
18. NO CONSTRUCTION EQUIPMENT SHALL BE PARKED WITHIN THE ROAD RIGHT-OF-WAY IN SUCH A MANNER THAT THE EQUIPMENT WILL OBSTRUCT THE NORMAL MOVEMENT AND SIGHT DISTANCE OF THE DRIVING MOTORIST, EXCEPT DURING ACTUAL WORKING HOURS.
19. DURING NON-WORKING HOURS, ALL SIGNS THAT DO NOT PERTAIN TO THE CONSTRUCTION ACTIVITY, SUCH AS "MEN WORKING" AND "FLAGMAN AHEAD" SHALL BE COVERED OR LAID DOWN. HOWEVER, ALL SIGNS NECESSARY FOR THE SAFETY OF THE PUBLIC SHALL BE MAINTAINED.
20. ANY PAVEMENT MARKINGS, STRUCTURES, AND APPURTENANCES (WITHIN OR OUTSIDE OF THE CONTRACT ZONE LIMITS) DAMAGED AND/OR WORN AWAY UNDER THE PERMIT BY THE UTILITY LINE INSTALLATION SHALL BE REPAIRED OR RECONSTRUCTED AS DIRECTED BY THE DEPARTMENT OF PUBLIC WORKS.
21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFORMANCE WITH THE APPLICABLE PROVISIONS OF THE WATER QUALITY AND WATER POLLUTION CONTROL STANDARDS CONTAINED IN HAWAII ADMINISTRATIVE RULES, TITLE 11, CHAPTER 54, "WATER QUALITY STANDARDS" AND TITLE 11, CHAPTER 55, "WATER POLLUTION CONTROL", AS WELL AS CHAPTER 14 OF THE REVISED ORDINANCES OF HONOLULU, AS AMENDED. BEST MANAGEMENT PRACTICES SHALL BE EMPLOYED AT ALL TIMES DURING CONSTRUCTION.
22. NO TRENCHING SHALL BE LEFT OPEN FOR MORE THAN FIVE (5) WORKING DAYS.
23. SHOULD TRENCHING OCCUR THROUGH AN EXISTING SIDEWALK OR SHOULD DAMAGES OCCUR TO THE SIDEWALK AS A RESULT OF TRENCHING, THE FOLLOWING PROCEDURE SHALL BE UTILIZED TO REPAIR THE SIDEWALK:
  - A. ALL PORTLAND CEMENT CONCRETE TO BE REMOVED SHALL BE FIRST CUT WITH A CONCRETE SAW THAT HAS A DIAMOND OR CARBORUNDUM ABRASIVE WHEEL. THOSE CUTS SHALL BE MADE TO A DEPTH EQUAL TO AT LEAST ONE-FOURTH OF THE DEPTH OF THE SLAB, OR ENOUGH AS IS DEEMED NECESSARY BY THE DEPARTMENT OF PUBLIC WORKS, TO PERMIT BREAKING OUT THE BALANCE OF THE CONCRETE WITHOUT SPALLING OFF THE EXPOSED EDGES OF THE SLAB LEFT IN PLACE.

- B. IF ANY CONCRETE BLOCK IS TOUCHED, THE WHOLE BLOCK SHALL BE REMOVED AND LATER REPLACED, UNLESS A MINOR VARIATION IS AUTHORIZED BY THE DPW OR ITS REPRESENTATIVE.
- C. ANY DAMAGE TO ADJACENT AREAS DUE TO SETTLEMENT OR TO ANY OTHER EFFECTS WHATSOEVER CAUSED BY THE TRENCH CONSTRUCTION SHALL BE PROPERLY REPAIRED AND CORRECTED.
- D. ALL OTHER INCIDENTAL WORK SHALL BE SATISFACTORILY PERFORMED TO EFFECT THE PROPER RESTORATION OF THE SIDEWALK AREA.
- E. SHOULD DAMAGE TO A SIDEWALK, CURB AND/OR GUTTER OCCUR AT A LOCATION WHERE A CURB RAMP SHOULD EXIST, OR TO A DRIVEWAY THAT DOES NOT MEET WITH THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA), REPAIR WORK SHALL INCLUDE THE CONSTRUCTION OF A CURB RAMP, OR RECONSTRUCTION TO THE DRIVEWAY SUCH THAT REPAIR WORK COMPLIES WITH THE ADA AND MEETS WITH THE APPROVAL OF THE DPW.
24. THE PERMITTEE SHALL MAINTAIN, TO THE SATISFACTION OF THE DEPARTMENT OF PUBLIC WORKS, THE AREA WORKED WITHIN THE GOVERNMENT RIGHT-OF-WAY INCLUDING ANY REPAIRS TO PAVEMENT AND SHOULDER DAMAGED AS A RESULT OF THE INSTALLATION WORK, FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL INSPECTION. THE PERMITTEE SHALL UNDERTAKE REPAIRS EXPEDITIOUSLY, WHENEVER DIRECTED BY THE DEPARTMENT OF PUBLIC WORKS DURING THE MAINTENANCE PERIOD.
25. WHEN WORK INTERFERES WITH A SIDEWALK OR PEDESTRIAN WALKWAY THE CONTRACTOR SHALL PROVIDE FOR THE SAFE PASSAGE OF PEDESTRIANS INCLUDING THE DISABLED AROUND OR THROUGH THE WORK AREA.
26. PURSUANT TO CHAPTER 6E, HRS, IN THE EVENT ANY ARTIFACTS OR HUMAN REMAINS ARE UNCOVERED DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL IMMEDIATELY SUSPEND WORK IN THE AREA AND NOTIFY THE ENGINEER, THE COUNTY OF HAWAII POLICE DEPARTMENT, THE STATE DEPARTMENT OF LAND AND NATURAL RESOURCES HISTORIC PRESERVATION DIVISION (692-8015) AND THE DEPARTMENT OF PUBLIC WORKS (808-961-8321).
27. NO CONTRACTOR SHALL PERFORM ANY CONSTRUCTION OPERATION AS TO CAUSE FALLING ROCKS, SOIL OR DEBRIS IN ANY FORM TO FALL, SLIDE OR FLOW INTO EXISTING DRAINAGE SYSTEMS, OR ADJOINING PROPERTIES, STREETS OR NATURAL WATERCOURSES. SHOULD SUCH VIOLATIONS OCCUR, THE CONTRACTOR MAY BE CITED AND THE CONTRACTOR SHALL IMMEDIATELY MAKE ALL REMEDIAL ACTIONS NECESSARY AT HIS OWN COST.
28. THE CONTRACTOR SHALL SUBMIT A NOISE POLLUTION CONTROL PLAN WHEN APPLYING FOR A CONSTRUCTION PERMIT.
29. THE CONTRACTOR SHALL PROVIDE, INSTALL, AND MAINTAIN ALL NECESSARY SIGNS, LIGHTS, FLARES, BARRIERS, BARRICADES, MARKERS, CONES, AND OTHER PROTECTIVE FACILITIES, AND SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE PROTECTION, CONVENIENCE, AND SAFETY OF THE TRAVELING PUBLIC. ALL SUCH PROTECTIVE FACILITIES AND PRECAUTIONS SHALL CONFORM WITH THE "ADMINISTRATIVE RULES OF HAWAII GOVERNING THE USE OF TRAFFIC CONTROL DEVICES AT WORK SITES ON, OR ADJACENT TO PUBLIC STREETS AND HIGHWAYS," ADOPTED BY THE DIRECTOR OF TRANSPORTATION, AND THE CURRENT U.S. FEDERAL HIGHWAYS ADMINISTRATION "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, PART VI - STANDARDS AND GUIDES FOR TRAFFIC CONTROLS FOR STREETS AND HIGHWAY CONSTRUCTION, MAINTENANCE, UTILITY AND INCIDENT MANAGEMENT OPERATIONS."
- IF LANE CLOSURES ARE REQUIRED DURING CONSTRUCTION, A TRAFFIC CONTROL PLAN SHALL BE INCORPORATED INTO THE CONSTRUCTION PLANS AND MUST BE APPROVED BY THE DIVISION PRIOR TO THE ISSUANCE OF THE PERMIT.
30. NO MATERIAL AND/OR EQUIPMENT SHALL BE STOCKPILED OR OTHERWISE STORED WITHIN THE HIGHWAY RIGHT-OF-WAY, EXCEPT AT LOCATIONS DESIGNATED IN WRITING AND APPROVED BY THE ENGINEER.
31. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ADEQUATE, SAFE, NON-SKID BRIDGING MATERIAL OVER THE TRENCH, INCLUDING SHORING, WHEN TRENCHING IN PAVEMENT AREAS TO HANDLE ALL TYPES OF VEHICULAR TRAFFIC. SMOOTH RIDING TAPERS SHALL BE PROVIDED FOR PAVEMENT TRANSITIONS AND ADVANCE WARNING SIGNS SHALL BE POSTED. PRIOR TO INSTALLING SUCH BRIDGING MATERIAL, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR ACCEPTANCE, DRAWINGS STAMPED BY A LICENSED STRUCTURAL ENGINEER.
32. ALL REGULATORY, GUIDE, AND CONSTRUCTION SIGNS AND BARRICADES SHALL BE OF HIGH-INTENSITY REFLECTIVE SHEETING.
33. UNPROTECTED PAVEMENT DROP OFFS GREATER THAN 2" WITHIN 8 FEET OF THE TRAVEL WAY SHALL NOT BE ALLOWED DURING NON-WORKING HOURS, EXCEPT WHERE APPROVED BY THE ENGINEER IN WRITING.
34. NO OPEN TRENCHES SHALL BE PERMITTED WITHIN THE CLEAR ZONE, DEFINED BY THE CURRENT EDITION OF THE "AASHTO ROADSIDE DESIGN GUIDE," EXCEPT WHERE SPECIFIED IN THE APPROVED TRAFFIC CONTROL PLAN, OR AS APPROVED BY THE ENGINEER IN WRITING.
35. FREE FLOW OF TRAFFIC SHALL BE MAINTAINED IN BOTH DIRECTIONS AT ALL TIMES. TEMPORARY STOPPAGES REQUIRE ADVANCE APPROVAL IN WRITING FROM THE ENGINEER AND A "NOTICE TO MOTORISTS" MAY BE REQUIRED. SUBMIT THE NOTICE TO THE ENGINEER FOR REVIEW AND ACCEPTANCE A MINIMUM OF 6 WEEKS PRIOR TO PUBLICATION.
36. CLEAR SHOULDER AREAS SHALL BE MAINTAINED FOR BICYCLISTS AND PEDESTRIAN TRAFFIC AT ALL TIMES. IF ON SHOULDER IS TO BE CLOSED, APPROPRIATE SIGNS SHALL BE POSTED DIRECTING BICYCLISTS AND PEDESTRIANS TO USE ALTERNATE SHOULDER AREAS.

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		<b>Okahara and Associates, Inc.</b>
<b>ENGINEERS AND LANDSCAPE ARCHITECTS</b>		
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<b>Revisions</b>		
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<b>PHASE 1 - KEAUKAHA SEWERLINE DESHA AVENUE CONNECT TO ANDREWS AVENUE 10" SEWERLINE</b>		
TMK: (3) 2-1-021-006, (3) 2-1-021-007, (3) 2-1-021-008, (3) 2-1-021-009, (3) 2-1-021-010, (3) 2-1-021-011, (3) 2-1-021-029, (3) 2-1-021-030, (3) 2-1-021-031, (3) 2-1-021-032, (3) 2-1-021-033, (3) 2-1-021-072, (3) 2-1-021-108		
<b>HILO, HAWAII 96720</b>		
<b>Sheet Title</b>		
<b>CIVIL NOTES</b>		
<b>BKM</b>	220-063	
Project Director	Project No.	
<b>SLP/LG</b>	<b>BKM</b>	
Drawn By	Checked By	CAD File Name:
<b>AS SHOWN</b>		
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Date		
Const. Issue Date		<b>2</b> Of <b>8</b> Sheets





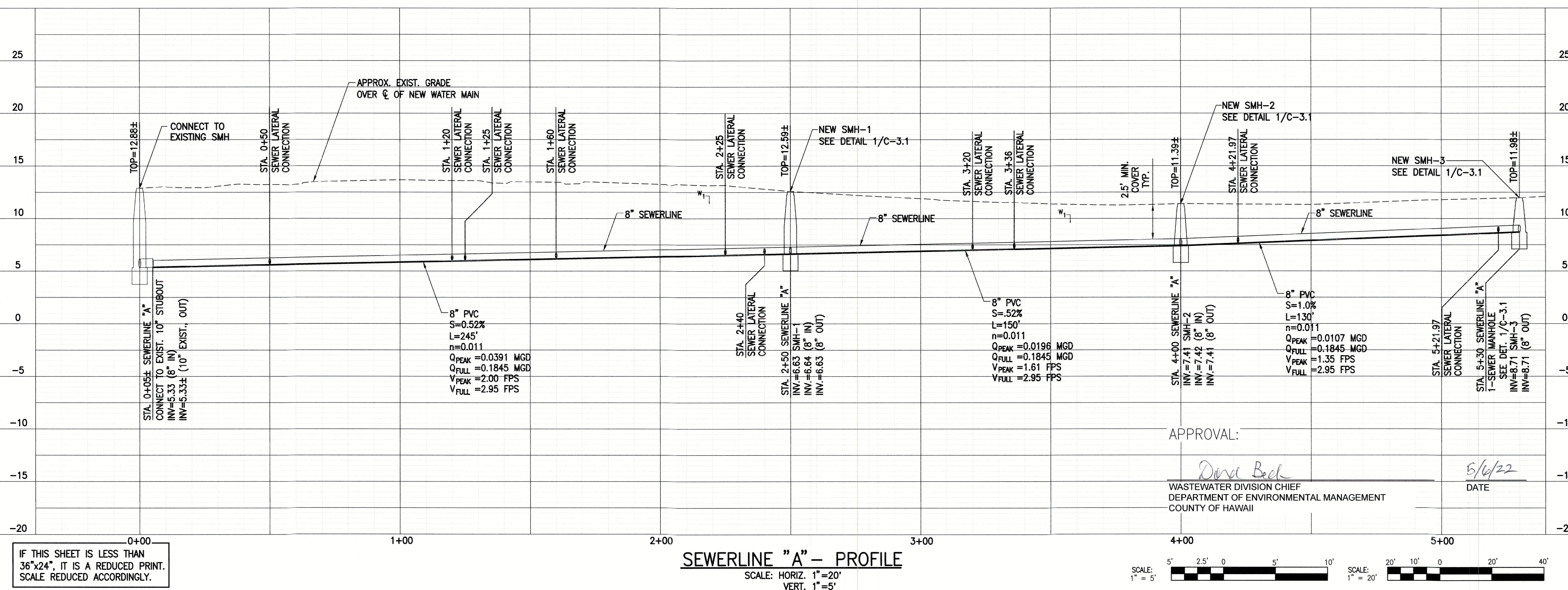
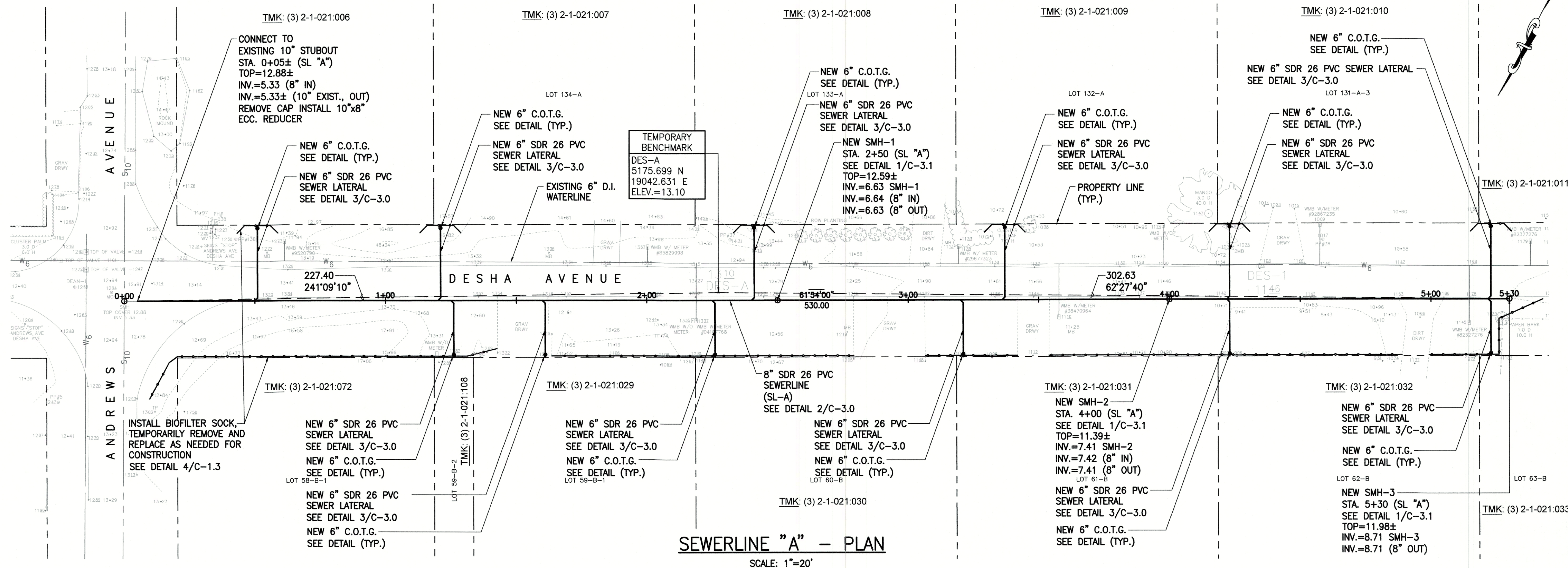






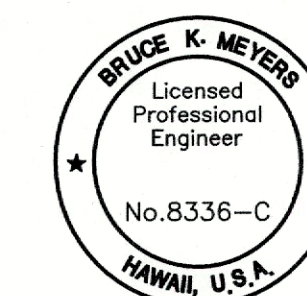
Q:\PROJ\2020\220-063 KEAUKAHA SEWERLINE DHH\CAD\SHTS\CIVIL\_NOTES-4.DWG Plotted: 5/4/2022






**Okahara and Associates, Inc.**  
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Project

PHASE 1 - KEAUKAHA SEWERLINE  
DESHA AVENUE CONNECT TO  
ANDREWS AVENUE 10" SEWERLINE

TMK: (3) 2-1-021:006, (3) 2-1-021:007, (3) 2-1-021:008,  
(3) 2-1-021:009, (3) 2-1-021:010, (3) 2-1-021:011, (3) 2-1-021:029,  
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(3) 2-1-021:072, (3) 2-1-021:108

HII O HAWAII 95720

Sheet Title

SEWERLINE "A" PLAN AND PROFILE  
STA. 0+00 TO STA. 5+30

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Project Director Project No.

SLP/LG BKM  
Drawn By Checked By CAD File Name:

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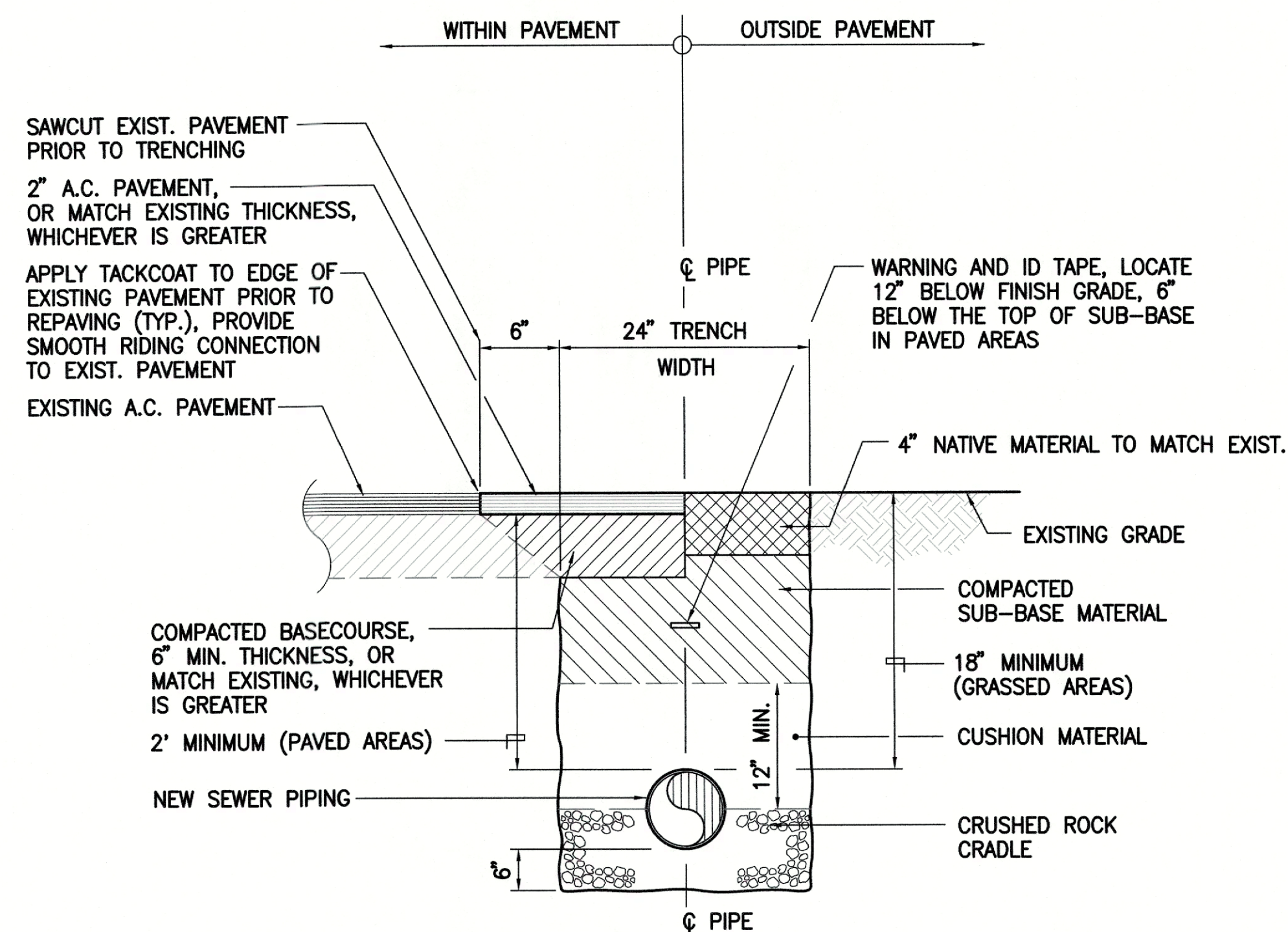
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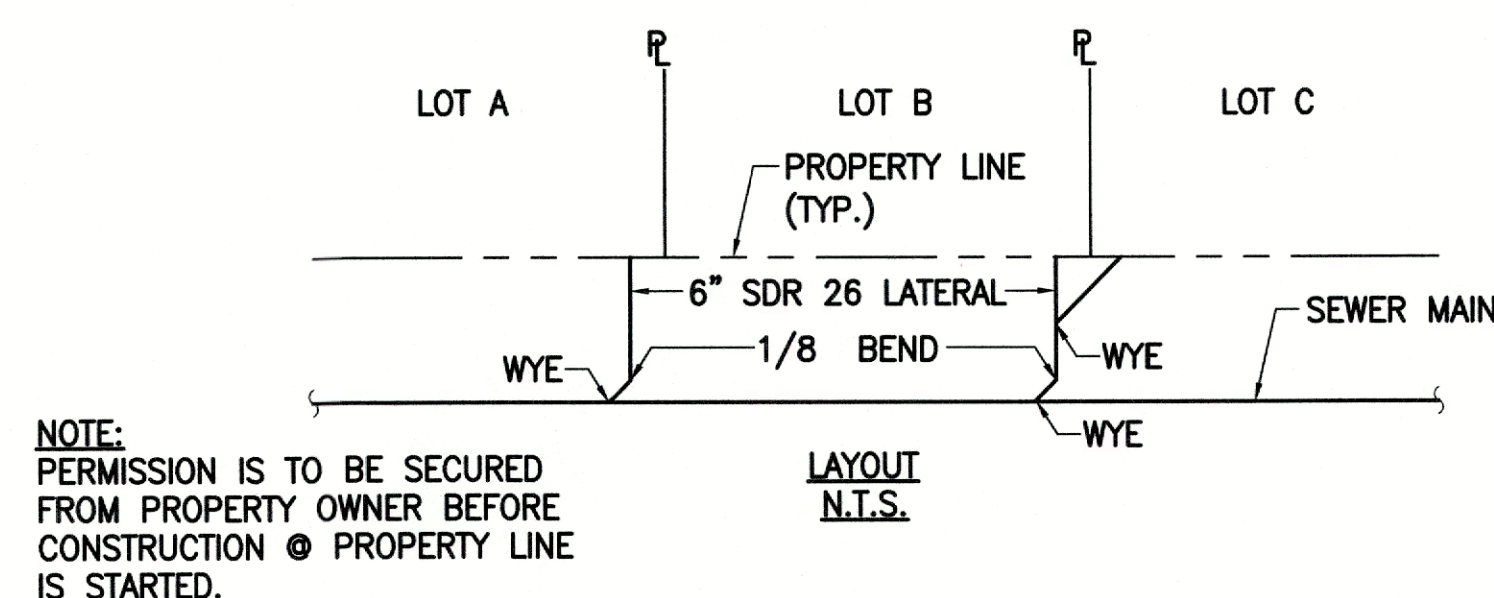
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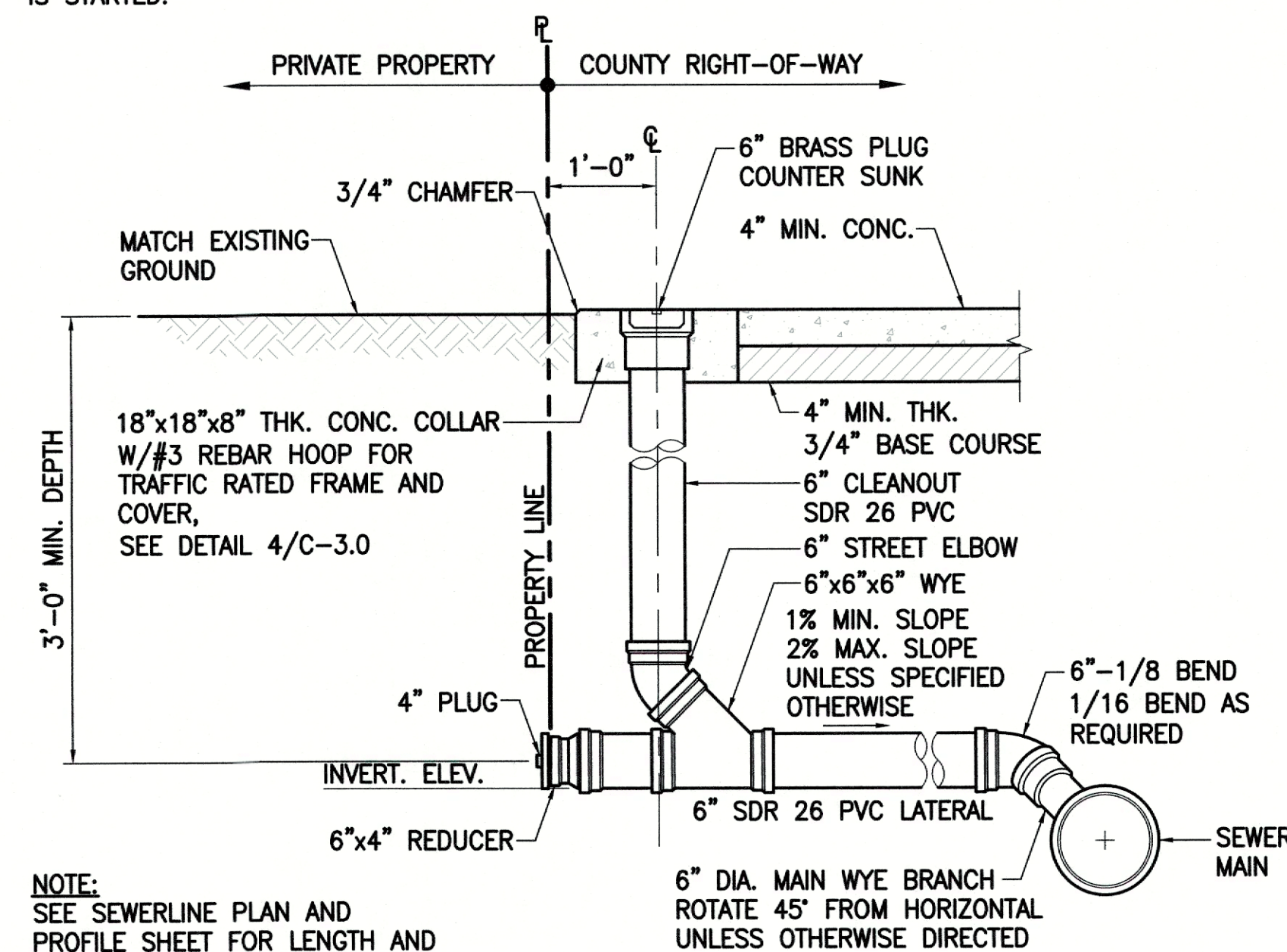




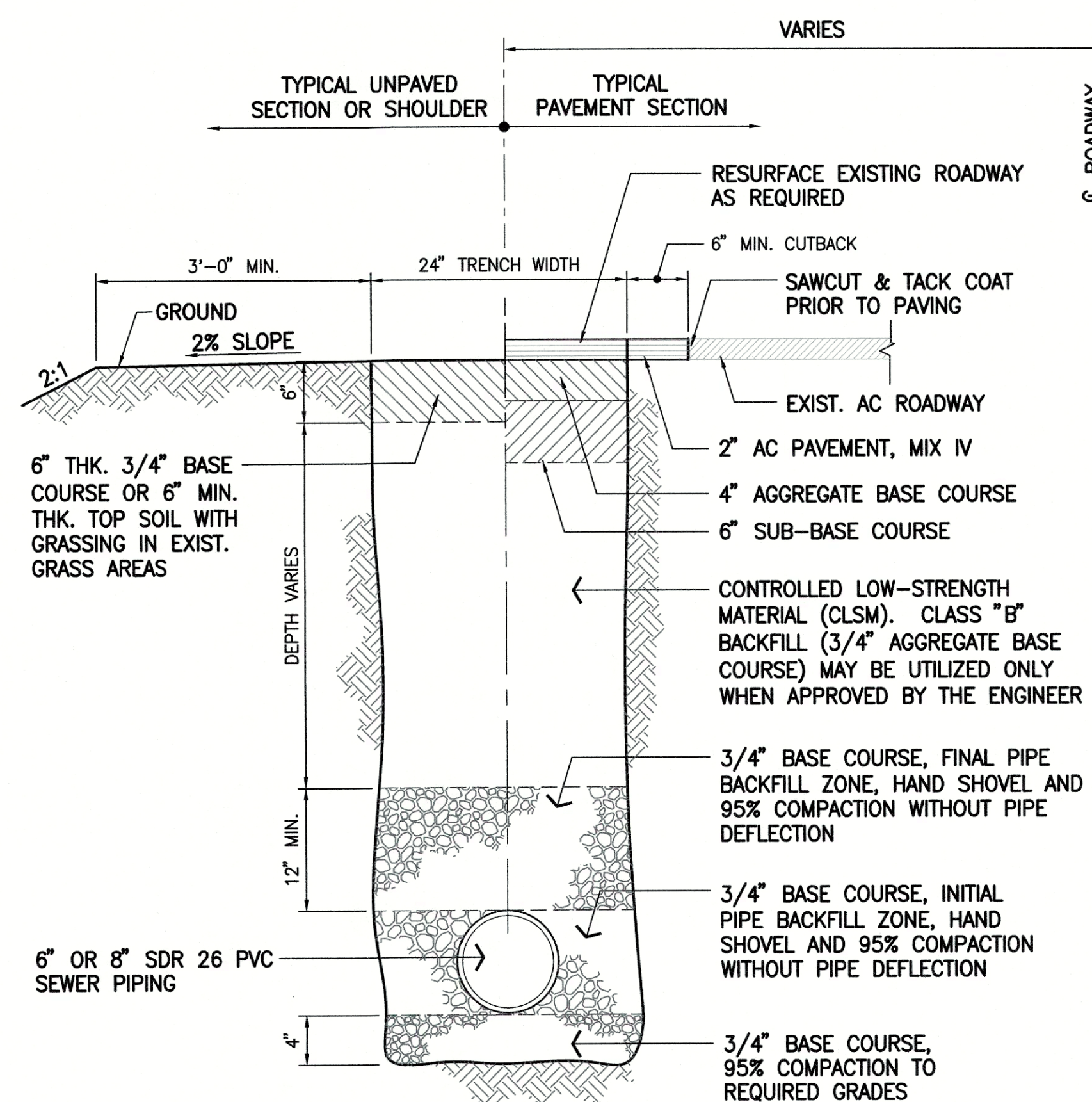
1 TYPICAL SEWER TRENCH DETAIL  
C-3.0 NOT TO SCALE



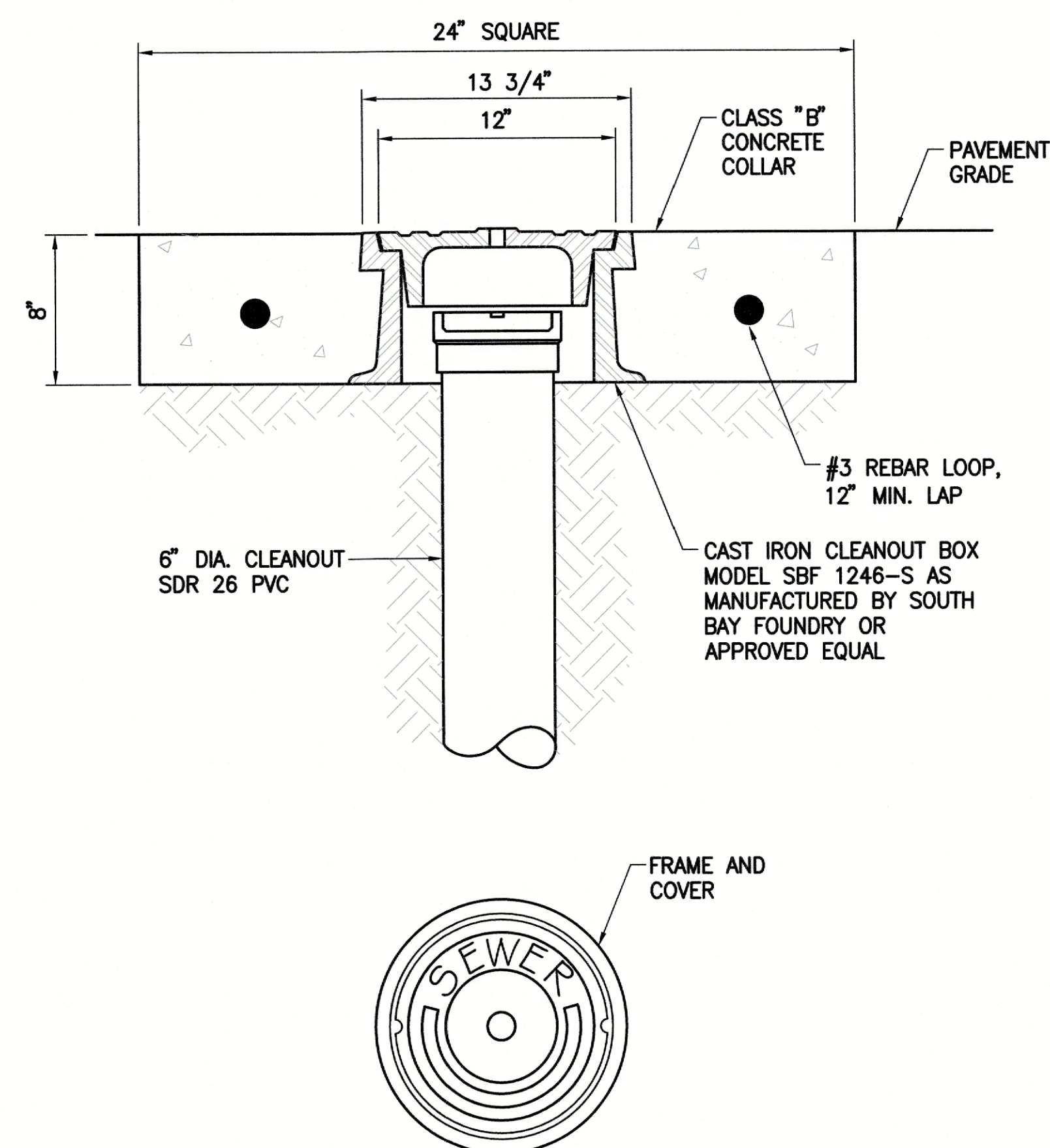
**NOTE:**  
PERMISSION IS TO BE SECURED  
FROM PROPERTY OWNER BEFORE  
CONSTRUCTION @ PROPERTY LINE  
IS STARTED.



3 SEWER LATERAL  
C-3.0 NOT TO SCALE



2 TYPICAL SEWER TRENCH IN COUNTY ROAD DETAIL  
C-3.0 NOT TO SCALE



4 TRAFFIC RATED FRAME AND COVER  
C-3.0 NOT TO SCALE

APPROVAL:

*Dana Beck*  
WASTEWATER DIVISION CHIEF  
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
COUNTY OF HAWAII

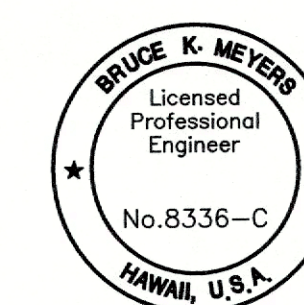
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Project \_\_\_\_\_

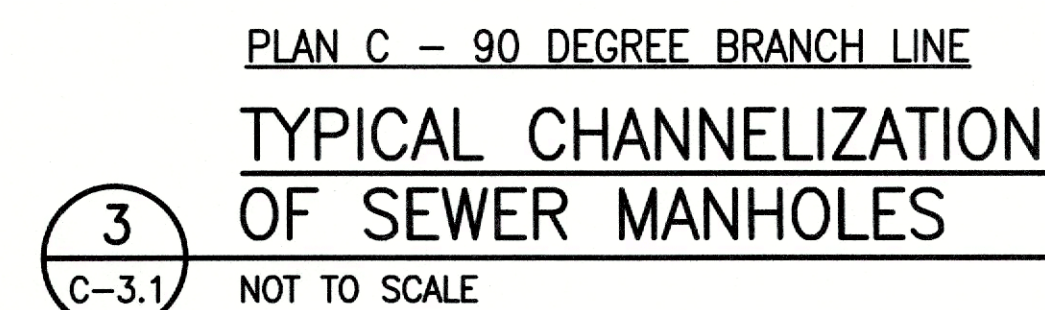
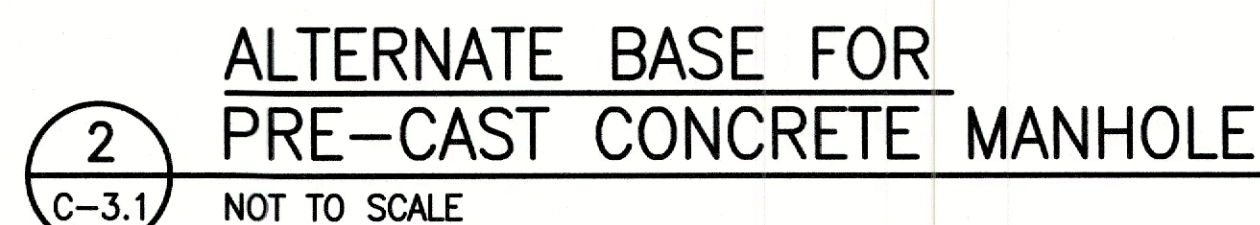
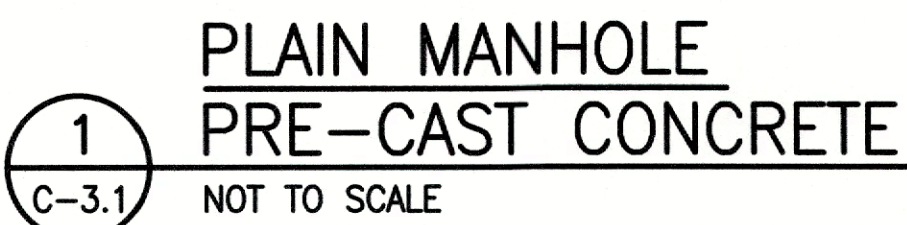
PHASE 1 - KEAUKAHA SEWERLINE  
DESHA AVENUE CONNECT TO  
ANDREWS AVENUE 10" SEWERLINE

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(3) 2-1-021:072, (3) 2-1-021:108

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Sheet Title	
CIVIL DETAILS	
BKM	220-063
Project Director	Project No.
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- 4 MANHOLE OVER EXISTING SEWER  
C-3.1 NOT TO SCALE

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Project

PHASE 1 - KEAUKAHA SEWERLINE  
DESHA AVENUE CONNECT TO  
ANDREWS AVENUE 10" SEWERLINE

TWK: (3) 2-1-021-006 (3) 2-1-021-007 (3) 2-1-021-008  
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Sheet		Title	
CIVIL DETAILS			
BKM	220-063		
Project Director	Project No.		
SLP/LG	BKM		
Drawn By	Checked By	CAD File Name:	
AS SHOWN			
Scale:			
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