

2025 ALLEY RECONSTRUCTION PROGRAM

FOR LATHRUP VILLAGE DOWNTOWN DEVELOPMENT AUTHORITY CITY OF LATHRUP VILLAGE, OAKLAND COUNTY, MICHIGAN

SOIL EROSION AND SEDIMENTATION CONTROL NOTES

1. THE CONTRACTOR SHALL COMPLY WITH REQUIREMENTS OF THE SOIL EROSION AND SEDIMENTATION CONTROL ACT OF THE STATE OF MICHIGAN, PART 91 OR ACT 451, OF THE PUBLIC ACTS OF 1994 AND THE REQUIREMENTS OF THE OAKLAND COUNTY WATER RESOURCE COMMISSIONER.
2. A SOIL EROSION AND SEDIMENTATION CONTROL PERMIT WILL BE REQUIRED FROM THE OAKLAND COUNTY WATER RESOURCES COMMISSIONER'S OFFICE.
3. THE CONTRACTOR SHALL CONDUCT OPERATIONS IN A MANNER THAT WILL REDUCE ACCELERATED EROSION TO THE PRACTICAL MINIMUM AND PREVENT DAMAGING SILTATION TO EXISTING SEWERS AND WATER COURSES LEADING FROM THE WORK SITE.
4. THE CONTRACTOR SHALL CONDUCT WORK IN SUCH A MANNER AS TO PREVENT THE ENTRY OF FUELS, OILS, BITUMINOUS MATERIALS, CHEMICALS, SEWERAGE OR OTHER HARMFUL MATERIALS INTO NEARBY LAKES AND STREAMS.
5. WASTE DISPOSAL AREAS SHALL BE SELECTED BY THE CONTRACTOR WITH FULL CONSIDERATION OF EROSION AND SEDIMENT CONTROL, SELECTION OF DISPOSAL SITE, CONTROL OF OPERATIONS AND THE RESTORATION OF SAID AREAS SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.
6. EXCAVATION FROM THE RIGHT-OF-WAY, CHANNELS, OR OTHER MATERIAL SHALL NOT BE DEPOSITED IN OR NEAR RIVERS, STREAMS OR PONDS WHERE IT MAY ENTER THE WATERWAY.
7. AT THE COMPLETION OF EACH DAY'S CONSTRUCTION, CARE SHALL BE TAKEN TO ENSURE THAT MINIMAL EROSION WILL OCCUR IN TRENCHES AND TO STOCKPILED MATERIALS UNTIL RESUMPTION OF WORK.
8. THE CONTRACTOR SHALL CONFINE OPERATIONS TO THE MINIMUM AMOUNT OF WORKING SPACE PRACTICAL TO MINIMIZE SOIL EROSION.
9. THE PROJECT WILL BE CONTINUALLY INSPECTED BY THE ENGINEER FOR EROSION CONTROL COMPLIANCE. DEFICIENCIES WILL BE CORRECTED BY THE CONTRACTOR IMMEDIATELY UPON NOTICE OF SUCH DEFICIENCIES. FAILURE TO CORRECT THE DEFICIENCIES MAY RESULT IN THE ISSUANCE OF A STOP WORK ORDER AND THERE WILL BE NO CONTRACT TIME EXTENSION GRANTED FOR THIS TYPE OF STOPPAGE.
10. INLET FILTERS SHALL BE INSTALLED THROUGHOUT THE ENTIRE CONSTRUCTION PHASE OF THE PROJECT AND SHALL BE REMOVED BY THE CONTRACTOR AFTER THE PERMANENT SOIL EROSION MEASURES HAVE BEEN COMPLETED.
11. STREET SWEEPING OR MUD REMOVAL SHALL BE PERFORMED DAILY FOR MUD TRACKED ONTO PUBLIC STREETS.
12. THE ENGINEER SHALL HAVE FULL AUTHORITY TO TEMPORARILY SUSPEND WORK IN THE EVENT THAT ANY OF THE ABOVE REQUIREMENTS ARE NOT BEING MET BY THE CONTRACTOR, OR IF CONDITIONS INDICATE THAT ADDITIONAL TEMPORARY CONTROL MEASURES ARE WARRANTED, IN THE OPINION OF THE ENGINEER.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF THE SOIL EROSION CONTROL MEASURES WITHIN THE CONSTRUCTION AREA UNTIL FULL COMPLETION OF THE PROJECT.
14. THE SOIL EROSION CONTROLS WILL BE MAINTAINED WEEKLY AND AFTER EVERY STORM EVENT BY THE CONTRACTOR.

TEMPORARY SESC MEASURE MAINTENANCE SCHEDULE

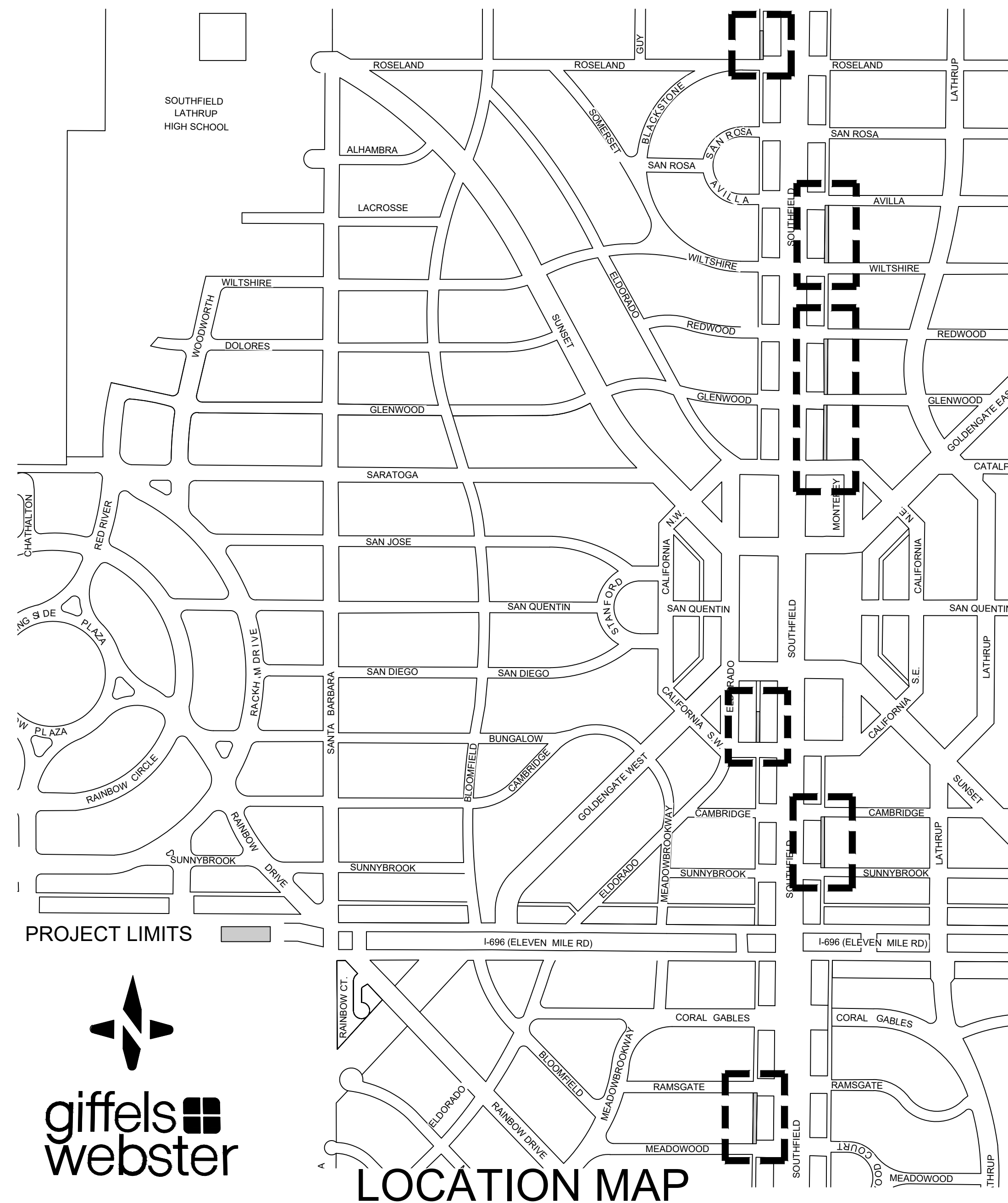
1. SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE MAINTAINED WEEKLY AND AFTER EVERY STORM EVENT.
2. WEEKLY INSPECTION AND MAINTENANCE MUST BE PROVIDED TO INSURE INLET FILTER OPERATES EFFICIENTLY.
3. REMOVE ACCUMULATED SEDIMENT.
4. REPLACE/REPAIR DAMAGED INLET FILTERS, AND/OR SEDIMENT CONTROL FENCING

REPAIR METHODS

1. RECONSTRUCTION WITH 3" HMA 3C BASE COURSE, 2" 5E1 WEARING COURSE, MACHINE GRADING

CONSTRUCTION NOTES

1. ALL BITUMINOUS MATERIALS SHALL BE COMPACTED TO A MINIMUM OF 92% OF THE MAXIMUM DENSITY AS DETERMINED BY THE MARSHALL METHOD.
2. AGGREGATE BASE UNDER ROADWAY SHALL BE COMPACTED TO A MINIMUM OF 98% OF THE MAXIMUM UNIT WEIGHT AND AT A MOISTURE CONTENT NO GREATER THAN OPTIMUM WHEN PLACED UNDER ASPHALT PAVEMENTS AND A MINIMUM OF 95% OF THE MAXIMUM UNIT WEIGHT AT A MOISTURE CONTENT NO GREATER THAN OPTIMUM WHEN PLACED UNDER CONCRETE PAVEMENTS.
3. THE CITY MAY DIRECT ADDITIONAL DRIVEWAY OR SIDEWALK CULVERTS TO BE REMOVED AND REPLACED.
4. DETECTABLE WARNING SURFACES SHALL BE BRICK RED, AND SHALL BE FROM AN APPROVED SOURCE LISTED BELOW:
 - ARMOR-TILE CAST IN PLACE DETECTABLE WARNINGS
 - ADA SOLUTIONS CAST IN PLACE TRUNCATED DOME DETECTABLE WARNING SYSTEMS
5. CONSTRUCTION LAYOUT. GIFFELS WEBSTER WILL PROVIDE PROPOSED FINISH GRADE STAKES FOR THE PROPOSED IMPROVEMENTS.



LOCATION MAP

NOT TO SCALE

BIDDER TO BID ACCORDINGLY

PAVEMENT CORE AND SOIL BORING INFORMATION FOR THIS PROJECT IS LIMITED. THE ENGINEER USED ALL INFORMATION AVAILABLE TO MAKE ASSUMPTIONS REGARDING EXISTING PAVEMENT, SUB-BASE AND BASE COMPOSITION FOR THIS PROJECT BLOCK TO BLOCK. THE INFORMATION SHOWN ON THESE DRAWINGS MAY NOT ACCURATELY REFLECT WHAT THE CONTRACTOR WILL UNCOVER IN THE FIELD. THICKNESS OF HMA SURFACE, REM AND PAVT, REM AS WELL AS EXCAVATION, EARTH QUANTITIES WILL VARY BLOCK TO BLOCK.

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REVISE

TRUCK ACCESS

1. ALL WORK TRUCKS SHALL ENTER/ EXIT THE WORK SITE FROM SOUTHFIELD ROAD. ACCESS THROUGH RESIDENTIAL STREETS SHALL NOT BE ALLOWED.

COORDINATION NOTE

1. THE CITY OF LATHRUP VILLAGE WILL BE RESURFACING EASTBOUND 11 MILE FROM SOUTHFIELD TO THE CITY LIMITS. EASTBOUND TRAFFIC WILL BE REDUCED FROM TWO LANES TO ONE. HEAVIER TRAFFIC LOADS WILL BE EXPECTED.
2. MDOT WILL BE RECONSTRUCTING 696 FROM LAHSER TO I-75. ALL EASTBOUND TRAFFIC, ON RAMP AND EXIT RAMP WILL BE CLOSED. WESTBOUND TRAFFIC WILL BE REDUCED FROM FOUR LANES TO TWO. HEAVIER TRAFFIC LOADS WILL BE EXPECTED. DETOURS WILL BE PROVIDED BY MDOT.

SEQUENCE OF CONSTRUCTION

1. INSTALL TEMPORARY TRAFFIC CONTROL DEVICES.
2. INSTALL TEMPORARY SESC MEASURES.
3. REMOVE PAVEMENT.
4. REMOVE DRIVEWAYS, CULVERTS AND SIDEWALKS.
5. SET SUBGRADE ELEVATIONS (WHERE REQUIRED).
6. PROOF-ROLL SUBGRADE.
7. PLACE AND / OR GRADE AGGREGATE BASE (WHERE REQUIRED).
8. ADJUST DRAINAGE STRUCTURES.
9. PLACE HMA PAVEMENT.
10. INSTALL DRIVEWAYS, SIDEWALKS, CULVERTS, AND RAMP.
11. REMOVE TEMPORARY TRAFFIC CONTROL DEVICES.
12. RESTORE ADJACENT LAWN AREAS.
13. REMOVE TEMPORARY SESC MEASURES.
14. CLEAN UP PROJECT SITE.

MDOT SPECIAL DETAILS AND STANDARD PLANS

FOR ALL WORK, THE CONTRACTOR SHALL FOLLOW THE MDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION AND THE STANDARD PLANS AND SPECIAL DETAILS LISTED BELOW (UNLESS OTHERWISE NOTED IN A SPECIAL PROVISION):

• R-9-D	COVER D
• R-28-K	CURB RAMP AND DETECTABLE WARNING DETAILS
• R-29-J	DRIVEWAY OPENINGS & APPROACHES, AND CONCRETE SIDEWALK
• R-30-G	CONCRETE CURB AND CONCRETE CURB & GUTTER
• R-31-F	INTEGRAL CURB AND INTEGRAL CURB & GUTTER
• R-80-F	GRANULAR BLANKET, UNDERDRAINS, OUTLET ENDINGS, AND SEWER BULKHEADS
• R-82-D	BEDDING AND FILLING AROUND PIPE CULVERTS
• R-83-C	UTILITY TRENCHES
• WZD-125-E	TEMPORARY TRAFFIC CONTROL DEVICES

GENERAL PROJECT NOTES:

- THE CONTRACTOR SHALL CONDUCT ALL OPERATIONS IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL CODES FOR NOISE LEVELS, VIBRATIONS, OR ANY OTHER RESTRICTIONS WHILE REMOVING PAVEMENT OR ANY OTHER CONSTRUCTION OPERATION WITHIN THIS CONTRACT.
- IF THE WORK EXTENDS BEYOND THE DATES SPECIFIED FOR SEASONAL SUSPENSION, IN THE ABSENCE OF APPROVED EXTENSION(S) OF TIME, NO COMPENSATION WILL BE DUE TO THE CONTRACTOR FOR ANY WINTER PROTECTION MEASURES THAT MAY BE REQUIRED BY THE ENGINEER.
- IF, IN THE OPINION OF THE ENGINEER, THE CONTRACTOR FAILS TO PERFORM THE DUTIES AS SPECIFIED IN THE PLANS OR AS DIRECTED BY THE ENGINEER, THE ENGINEER MAY REQUIRE CITY FORCES TO PERFORM WORK, WITH OR WITHOUT NOTIFICATION TO THE CONTRACTOR OR THE SURETY. THE CONTRACTOR SHALL BE CHARGED LABOR AND EQUIPMENT RENTAL RATES AS DETERMINED BY THE CITY.
- THE CONTRACTOR SHALL NOTIFY CITY OF SOUTHFIELD FIRE AND LATHRUP VILLAGE POLICE DEPARTMENTS A MINIMUM OF 48 HOURS IN ADVANCE OF PROPOSED ALLEY OR LANE CLOSURES.
- THE CONTRACTOR AND SUBCONTRACTORS SHALL NOTIFY "MISS DIG" A MINIMUM OF 72 HOURS PRIOR TO THE START OF ANY CONSTRUCTION.
- THE USE OF PRIVATE PROPERTY BY THE CONTRACTOR AND SUBCONTRACTORS IS PROHIBITED UNLESS A WRITTEN AGREEMENT, NOTARIZED BY A PUBLIC NOTARY, BETWEEN THE CONTRACTOR AND PROPERTY OWNER IS PROVIDED TO THE ENGINEER PRIOR TO THE USE OF SAID PROPERTY.
- SOIL BORING AND PAVEMENT CORE INFORMATION IS PROVIDED FOR GENERAL INFORMATION ONLY AND IS SPECIFIC TO THE POINT LOCATION IDENTIFIED ON PLANS
- THE CONTRACTOR SHALL PROVIDE AND/OR CONSTRUCT TEMPORARY WASHOUT AREAS FOR CONCRETE WASTE AT A LOCATION APPROVED BY THE ENGINEER. AT NO TIME SHALL A CONTRACTOR OR SUPPLIER OF CONCRETE WASH OUT OR DISPOSE OF CONCRETE WASTE AT ANY LOCATION OTHER THAN THESE DESIGNATED LOCATIONS. FAILURE TO MEET THIS REQUIREMENT WILL REQUIRE SUSPENSION OF ALL CONCRETE OPERATIONS UNTIL SUCH TIME THAT CORRECTIVE ACTION IS TAKEN AND ACCEPTED BY THE ENGINEER.
- THE CONTRACTOR SHALL SAWCUT ALL ROADWAY, ALLEY, DRIVEWAY, AND SIDEWALK REMOVAL LIMITS FULL-DEPTH PRIOR TO BEGINNING REMOVALS. THIS WORK SHALL NOT BE PAID SEPARATELY BUT SHALL BE INCLUDED IN PAYMENT FOR OTHER WORK ITEMS.
- THE CONTRACTOR SHALL REPAIR ALL LAWN SPRINKLER SYSTEMS IMPACTED BY CONSTRUCTION.
- THE CONTRACTOR SHALL GRADE AND RESTORE DISTURBED OPEN CHANNEL DRAINAGE FEATURES TO PROVIDE CONSISTENT POSITIVE DRAINAGE.
- THE CONTRACTOR SHALL PROOF ROLL ALL SUBGRADE WHERE DIRECTED AT NO ADDITIONAL COST TO THE CITY.
- EXCAVATION QUANTITIES PROVIDED ON EACH ALLEY ARE ESTIMATES ONLY AND SHOULD NOT BE SOLELY RELIED UPON BY THE CONTRACTOR THROUGHOUT THE BIDDING AND CONSTRUCTION PROCESS.
- LANDSCAPE AREAS DISTURBED FOR CONVENIENCE OF THE CONTRACTOR SUCH AS STOCKPILE AREAS WILL BE RESTORED BY THE CONTRACTOR AT NO COST TO THE CITY.
- THE CONTRACTOR MAY BE REQUIRED TO OBTAIN THE FOLLOWING PERMITS PRIOR TO THE START OF CONSTRUCTION:
 - WATER RESOURCES COMMISSIONER (SOIL EROSION AND SEDIMENTATION CONTROL)
 - RCOC R.O.W. PERMIT (SOUTHFIELD ROAD CORRIDOR APPROACHES).

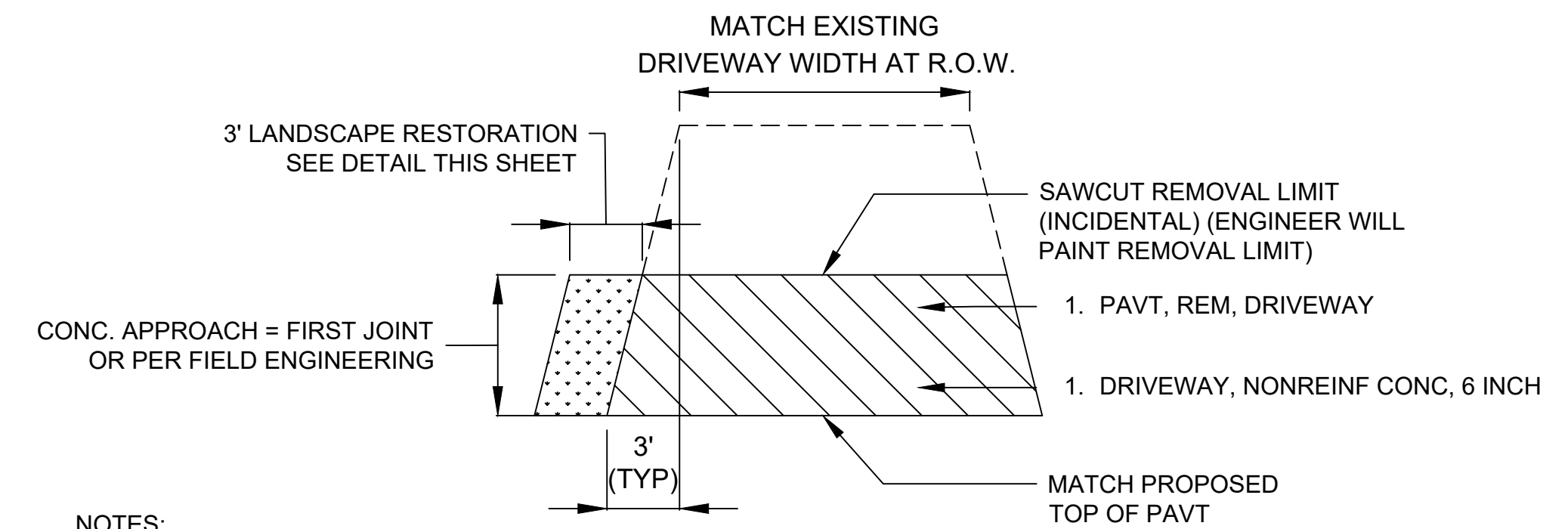
SUMMARY OF ESTIMATED QUANTITIES

ITEM	UNIT	PLANNED	AS DIRECTED	TOTAL
MOBILIZATION, MAX 5%	Ls	1	-	1
TRAFFIC CONTROL, MAX 3%	Ls	1	-	1
REIMBURSED PERMIT FEES	Dlr	1,000.0	-	1,000
CULV, REM, LESS THAN 24 INCH	Ea	1	-	1
PAVT, REM	Syd	145	-	145
SIDEWALK, REM	Syd	53	-	53
EXCAVATION, EARTH, LINCOLN WEST	Ls	1	-	1
EXCAVATION, EARTH, LINCOLN EAST	Ls	1	-	1
EXCAVATION, REVISE	Ls	1	-	1
EXCAVATION	Ls	1	-	1
MACHINE GRADING	Sta	-	-	-
SUBGRADE UNDERCUTTING, 21AA	Cyd	-	60	60
EROSION CONTROL, INLET FILTER, DROP CLOTH	Ea	9	-	9
AGGREGATE BASE, 4 INCH, 21AA	Syd	64	-	64
AGGREGATE BASE, 6 INCH, 21AA	Syd	1,775	-	1,775
GEOTEXTILE, SEPERATOR, NON-WOVEN, CSIN400E	Syd	1,775	-	1,775
DR STRUCTURE COVER, ADJ, CASE 1	Ea	7	-	7
CULV, CL F, 8 INCH, CMP	Ft	-	30	30
HMA SURFACE, REM	Syd	1,705	-	1,705
EDGE TRIMMING	Ft	690	-	690
HAND PATCHING	Ton	21	-	21
CONC PAVT WITH INTEGRAL CURB, NONREINF, 7 INCH	Syd	479	-	479
CONC PAVT, NONREINF, 7 INCH	Syd	1,297	-	1,297
JOINT, PLANE-OF-WEAKNESS, W	Ft	1,404	-	1,404
JOINT, LONGITUDINAL LANE TIE, D	Ft	747	-	747
DETECTABLE WARNING SURFACE	Ft	5	-	5
SIDEWALK RAMP, CONC, 6 INCH	Sft	91	-	91
SIDEWALK, CONC, 4 INCH	Sft	396	-	396
SIDEWALK, CONC, 7 INCH	Sft	754	-	754
LANDSCAPE RESTORATION	Syd	279	-	279
WATER, SODDING/SEEDING	Unit	4.88	-	5

HMA APPLICATION ESTIMATE

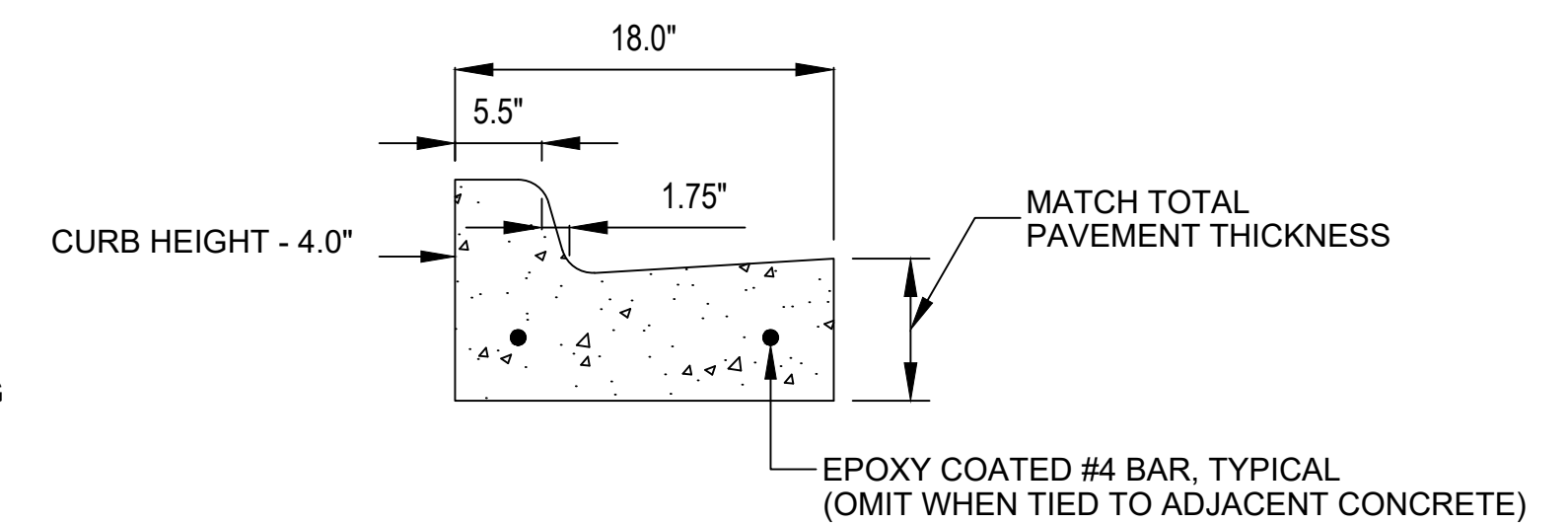
MATERIAL	ITEM(S)	APPLICATION RATE	ESTIMATED THICKNESS	PERFORMANCE GRADE BINDER
HMA, 5E1	TOP COURSE	110 LBS / IN / SYD	1.5 - 2.0 INCHES	58-22 MIN AWI = 220
HMA, 3C	LEVELING COURSE	110 LBS / IN / SYD	2.0 - 3.0 INCHES	58-22
HMA, 36A	HMA DRIVEWAY APPROACH	110 LBS / IN / SYD 2 - 2 INCH LIFTS	4.0 INCHES	58-22
HMA, 36A	HAND PATCHING	110 LBS / IN / SYD	VARIES	58-22

NOTE: APPLY BOND COAT BETWEEN ALL HMA LIFTS AT 0.10 GAL/SYD FOR ALL HMA SURFACES NOT OPENED TO TRAFFIC AND 0.15 GAL/SYD FOR ALL HMA SURFACES OPENED TO TRAFFIC FOR ALL HMA. LEVELING COURSE HAS BEEN ESTIMATED AT 110% FOR ALL METHOD C STREETS TO CORRECT EXISTING SURFACE IRREGULARITIES.



- NOTES:
- MATCH EXISTING JOINTS THROUGH PROPOSED DRIVEWAY.
 - AREAS OF EXISTING LANDSCAPING DISTURBED BY CONSTRUCTION SHALL BE TOPPED WITH TOPSOIL AND SEED. EXCAVATION, EARTH MAY BE REQUIRED TO MEET THE PROPOSED DRIVEWAY ELEVATION THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT INCLUDED IN THE COST OF PAVT, REM, DRIVEWAY.
 - THE CONTRACTOR SHALL MAINTAIN ACCESS VIA MAINTENANCE GRAVEL WHERE DIRECTED BY THE ENGINEER. THIS ITEM SHALL NOT BE PAID FOR SEPARATELY AND WILL BE INCLUDED IN OTHER CONTRACT ITEMS.
 - DRIVEWAYS SHALL BE CONSTRUCTED TO ALLOW POSITIVE DRAINAGE ALONG THE PAVEMENT EDGE. NO PONDING AT THE PAVEMENT EDGE OR ON THE DRIVEWAY WILL BE ALLOWED.

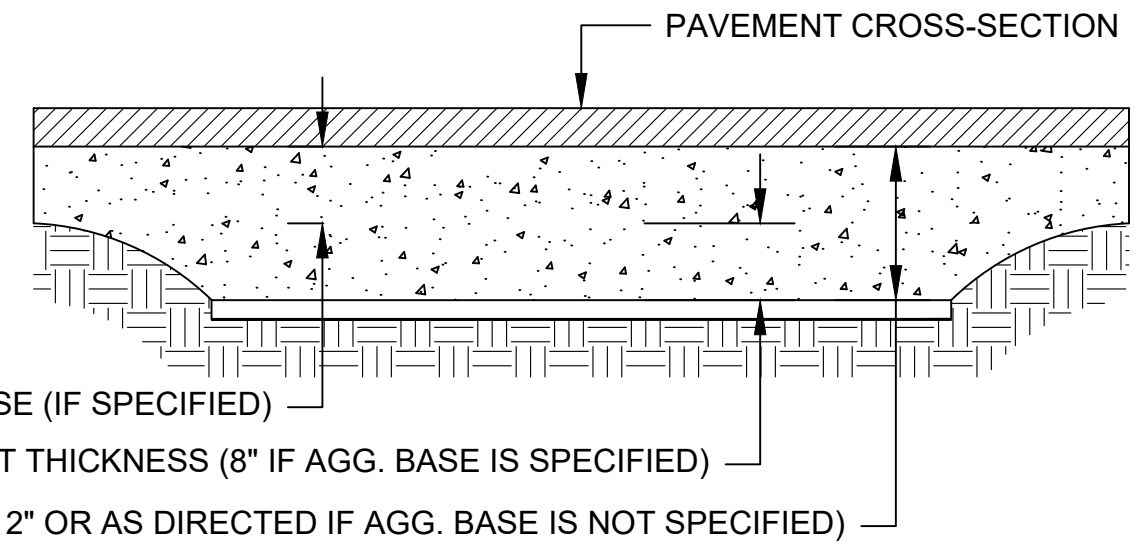
RESIDENTIAL DRIVEWAY DETAIL



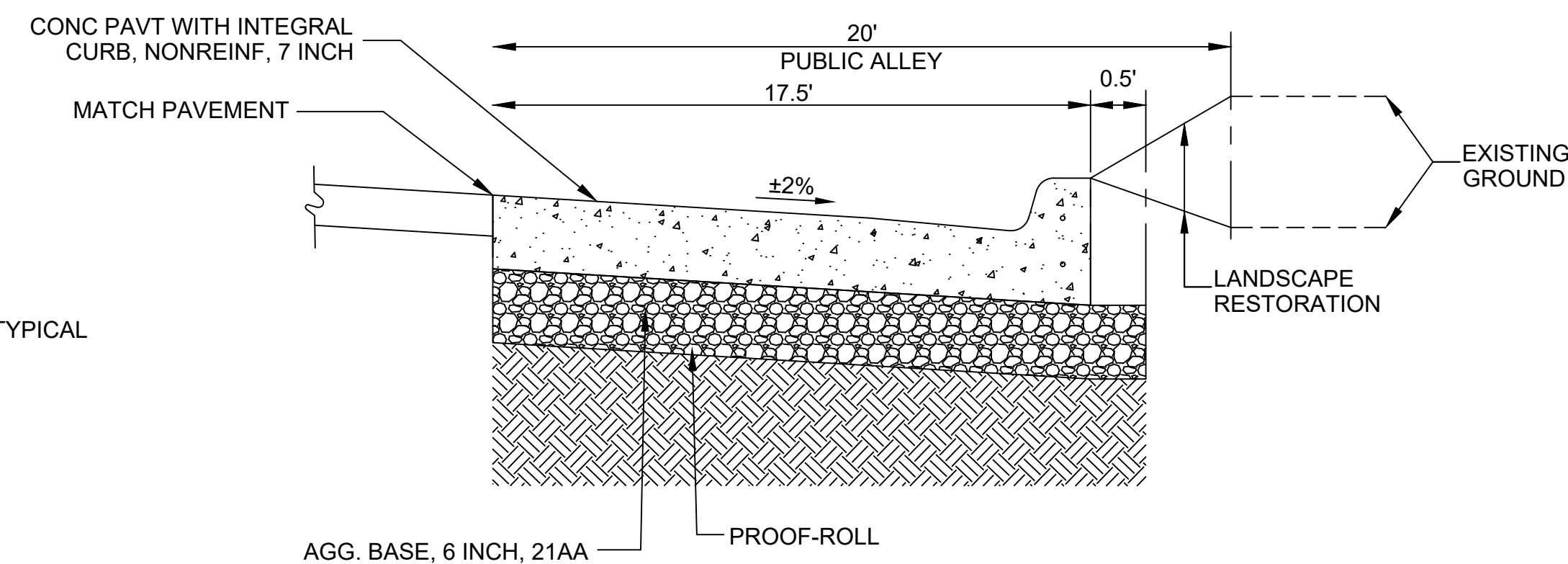
CURB AND GUTTER, CONC, DET F2, MODIFIED DETAIL

LINETYPE LEGEND

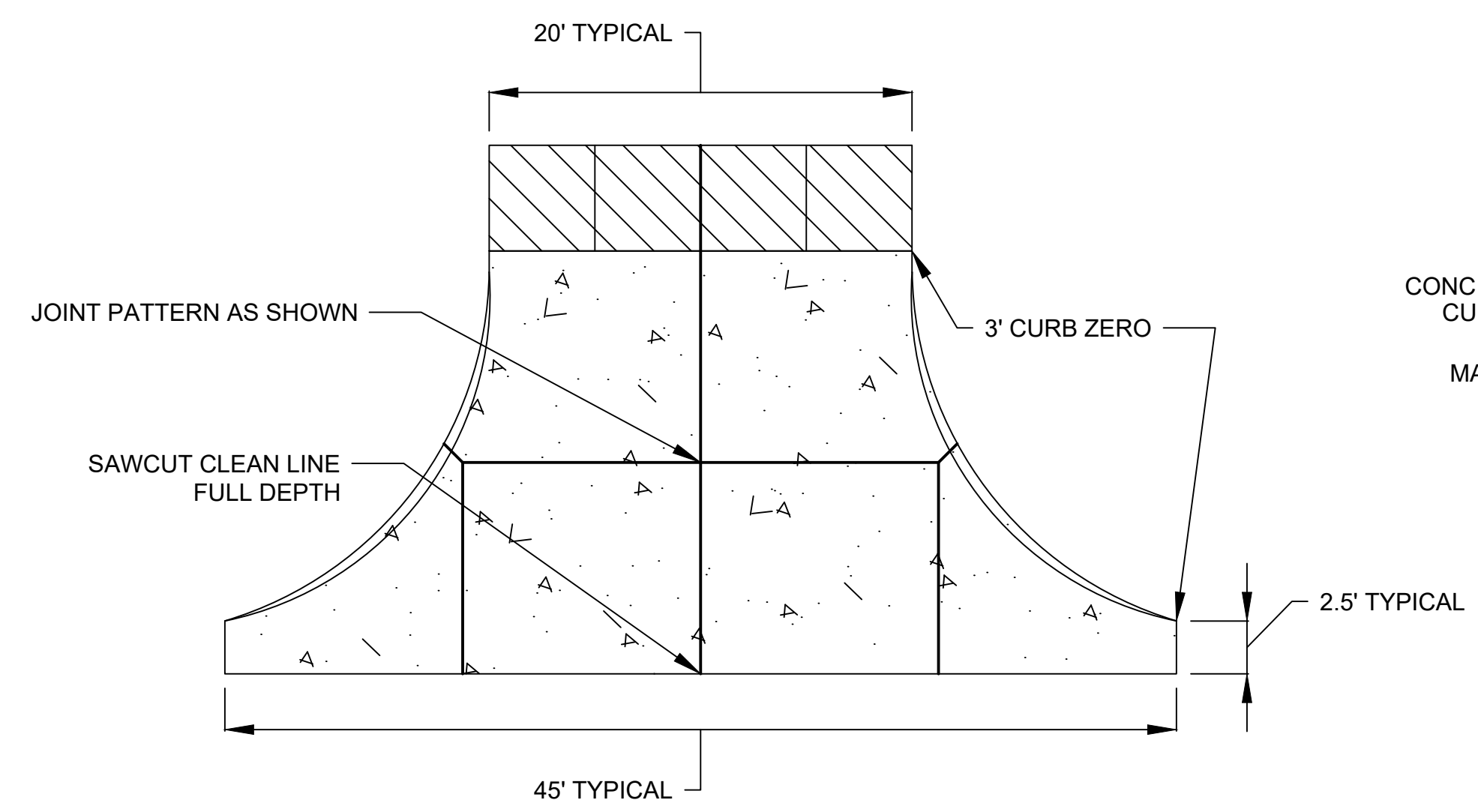
- GAS — EXISTING GAS MAIN
- CTW — EXISTING UNDERGROUND CABLE
- SAN — EXISTING SANITARY SEWER
- STM — EXISTING STORM SEWER
- W — EXISTING WATER MAIN
- — — — — PROPERTY BOUNDARY



SUBGRADE UNDERCUTTING, 21AA DETAIL



TYPICAL ALLEY APPROACH CROSS SECTION DETAIL



TYPICAL ALLEY APPROACH DIMENSIONS AND JOINTS DETAIL



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NOTES AND DETAILS

2025 ALLEY RECONSTRUCTION PROGRAM
CITY OF LATHRUP VILLAGE
OAKLAND COUNTY
MICHIGAN

Date: 1.03.25
Scale: AS SHOWN
Sheet: 2 of 12
Project: 18736.25

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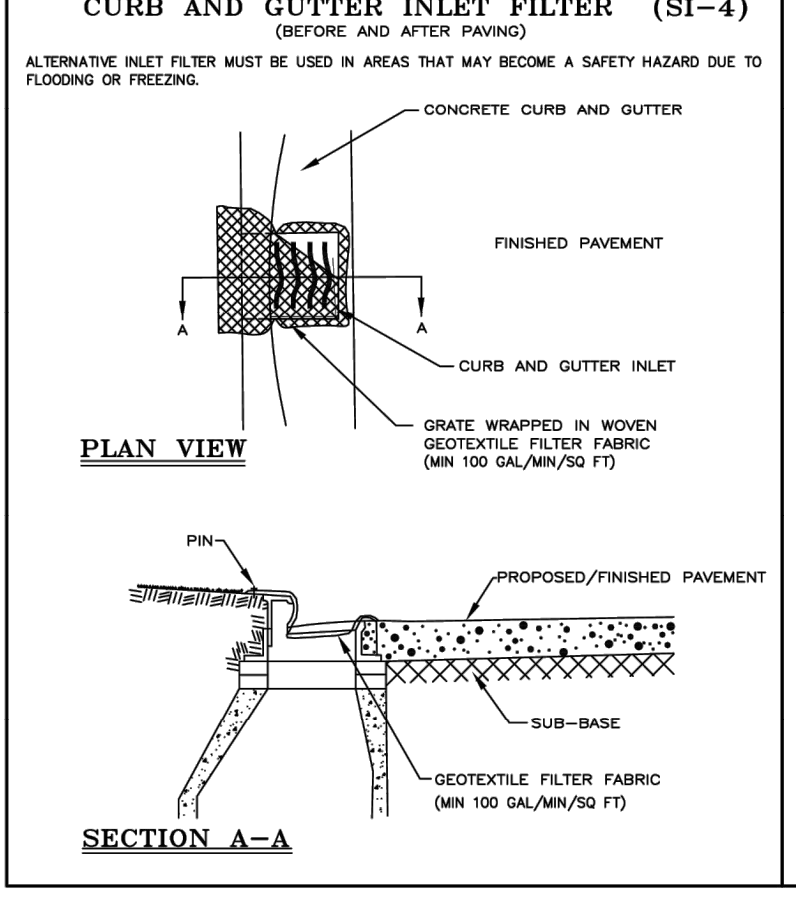
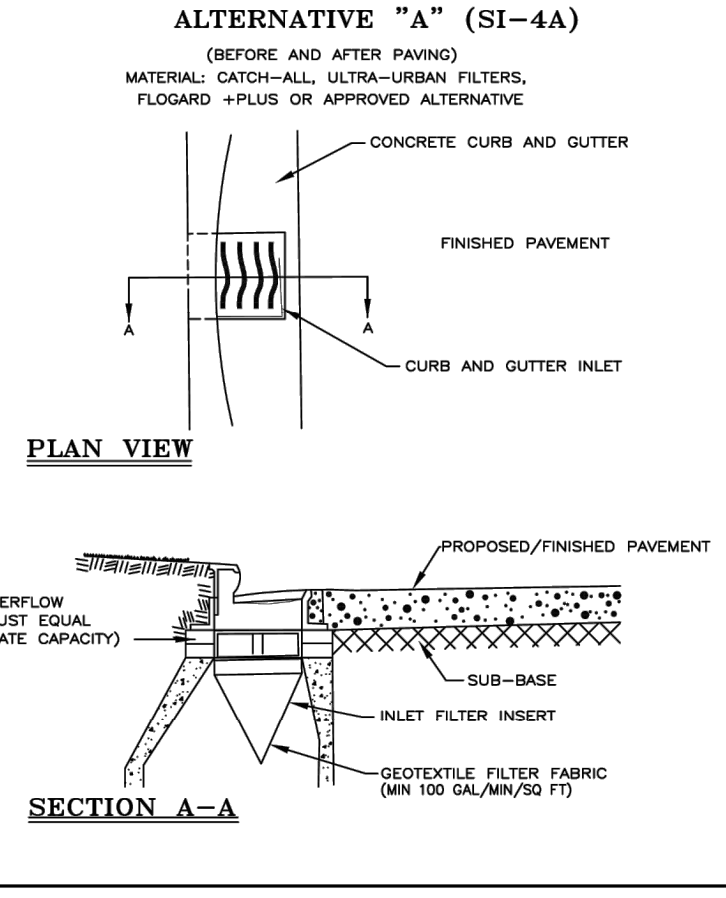
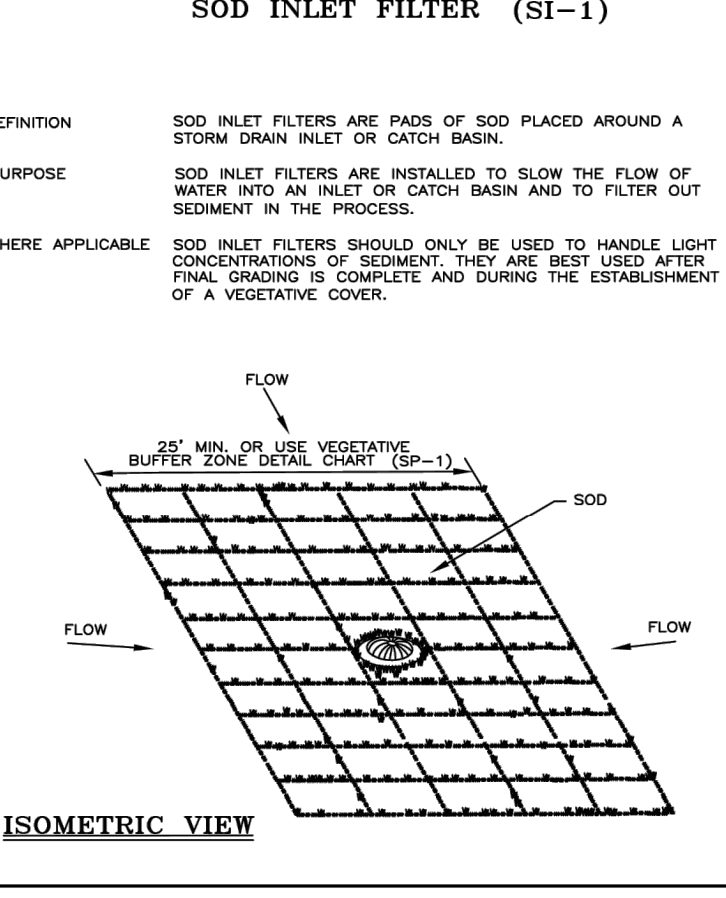
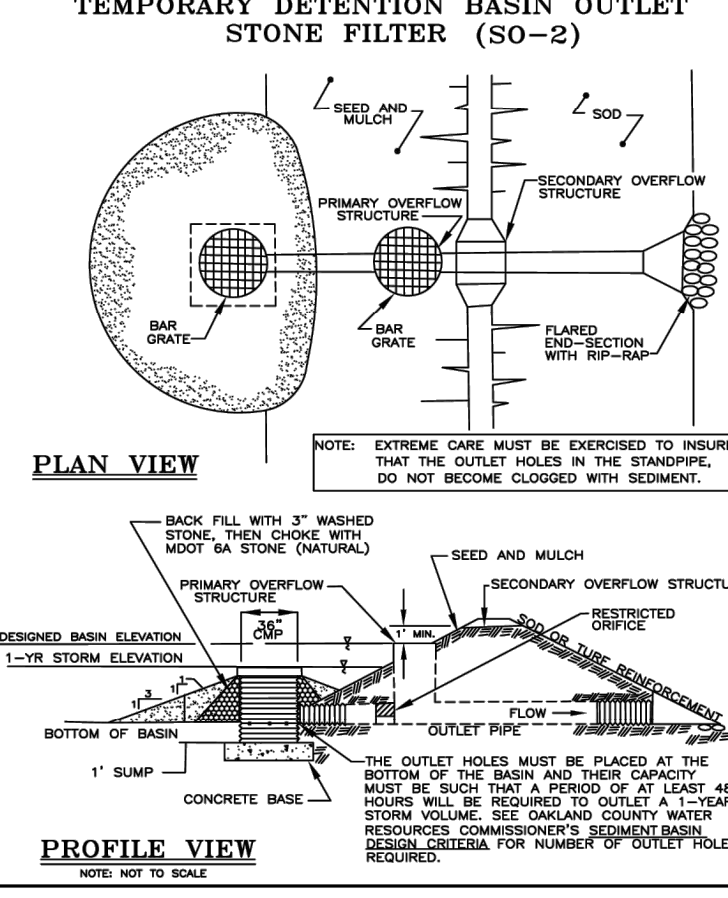
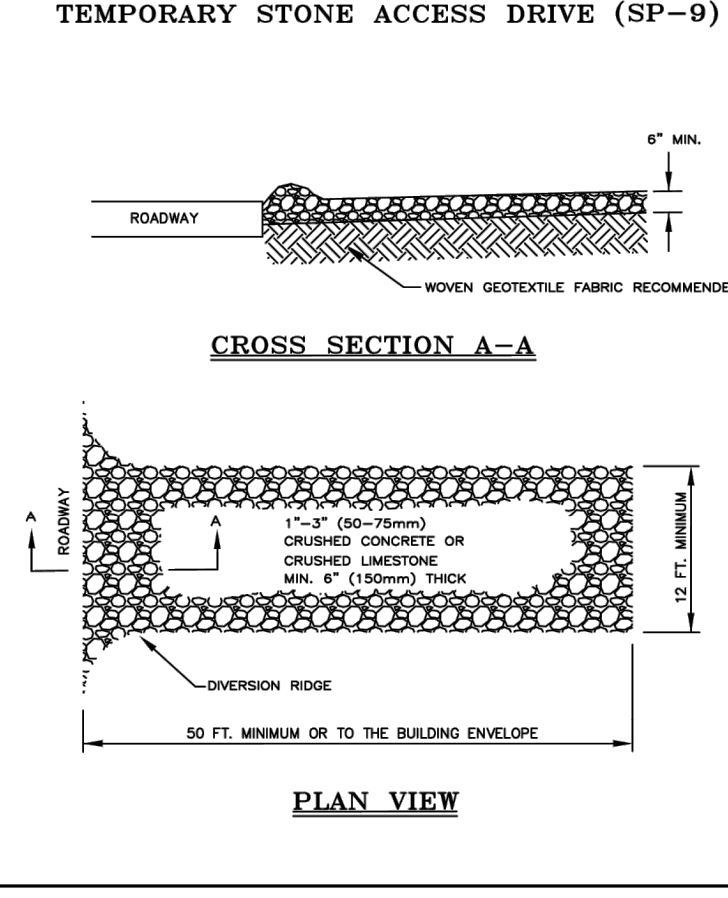
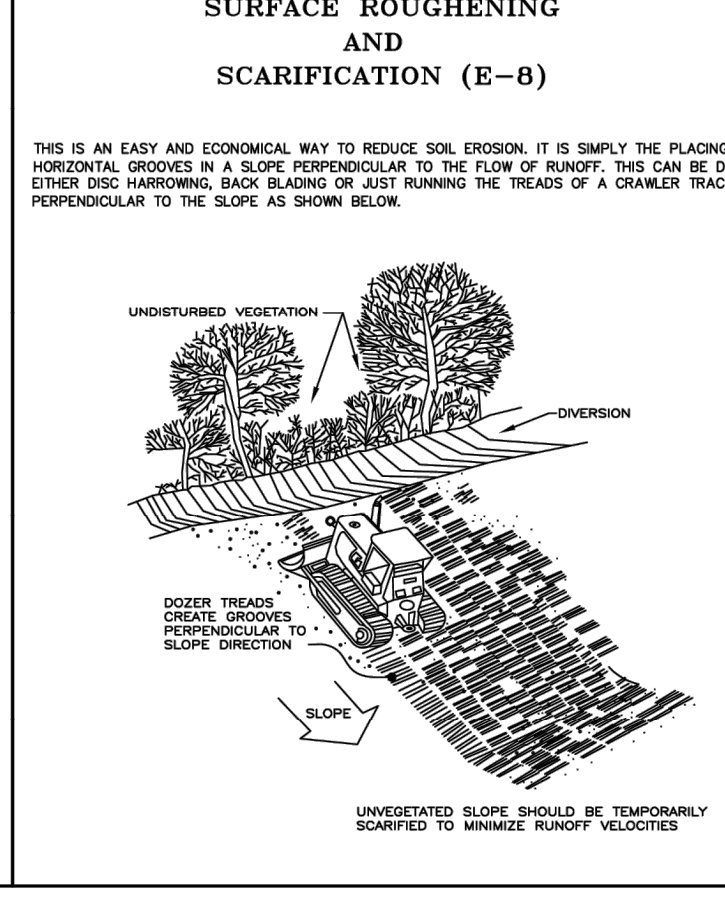
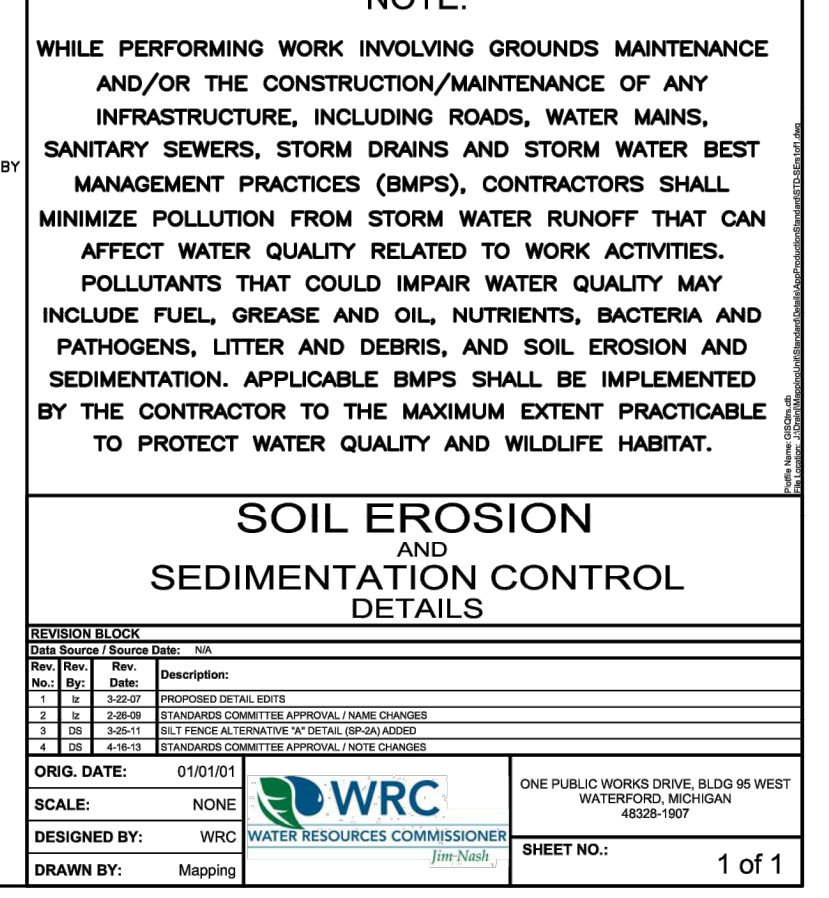
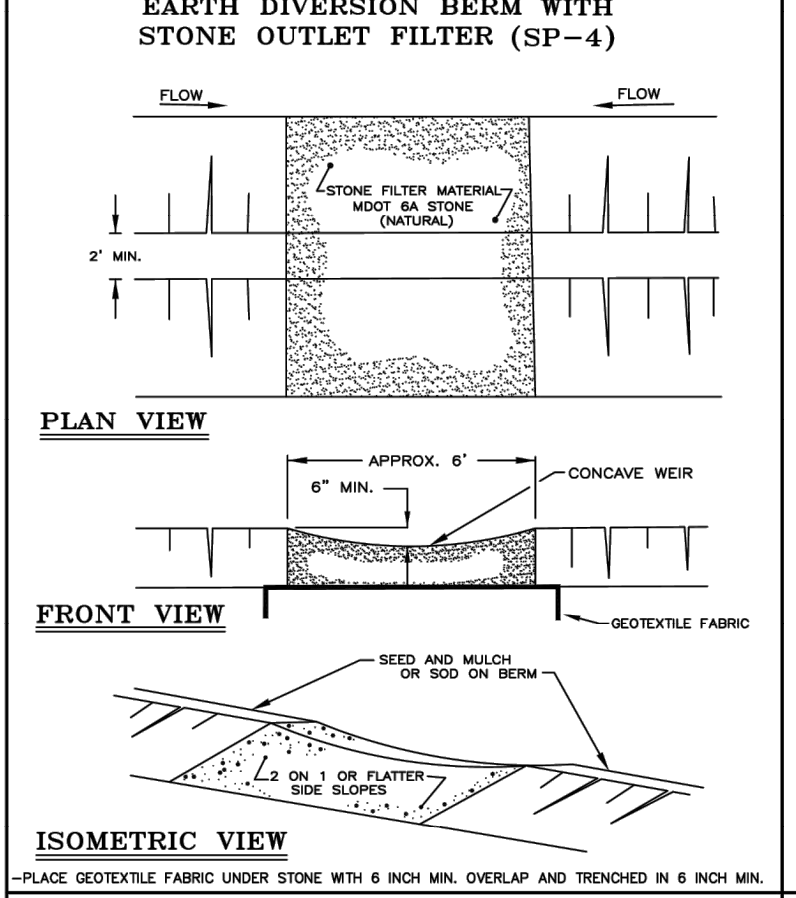
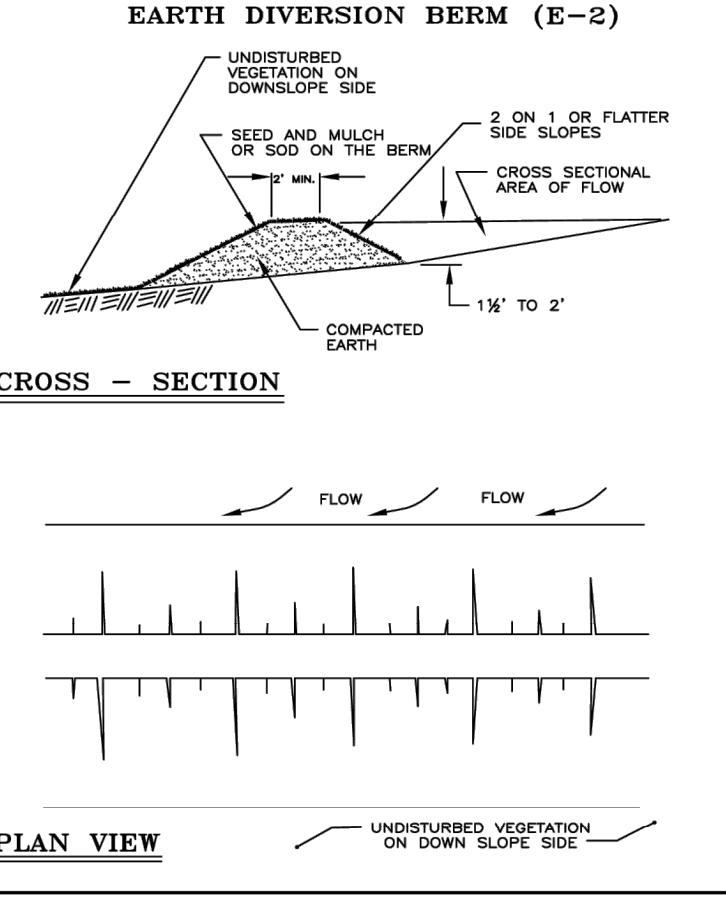
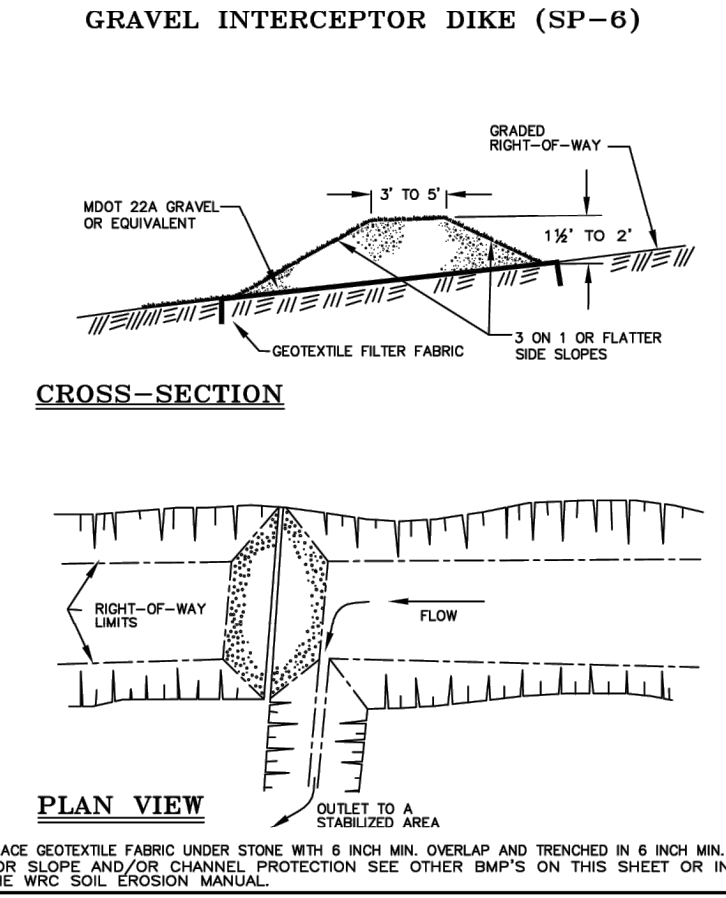
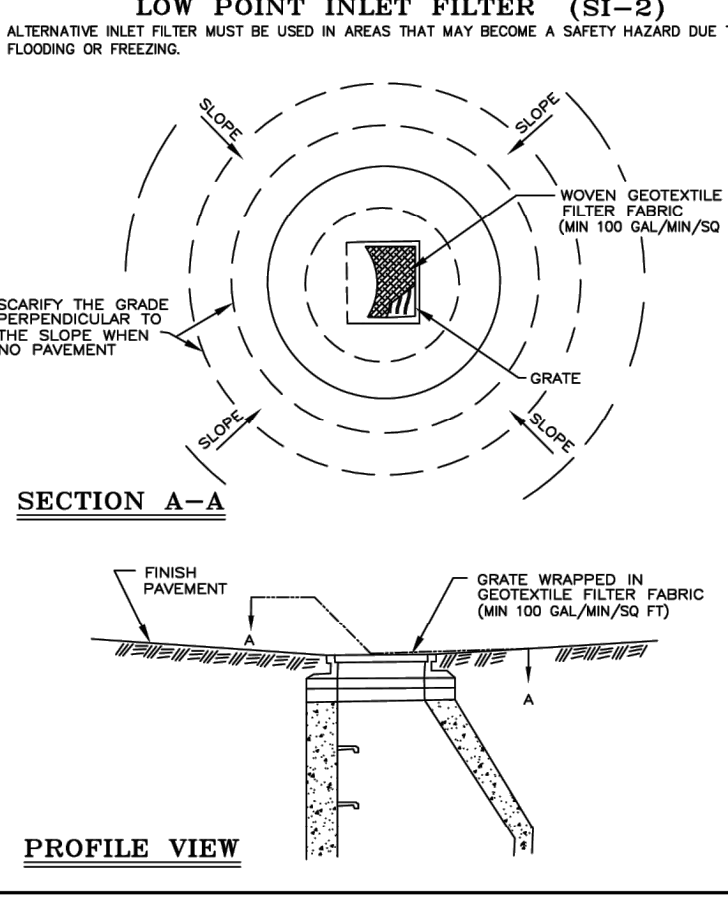
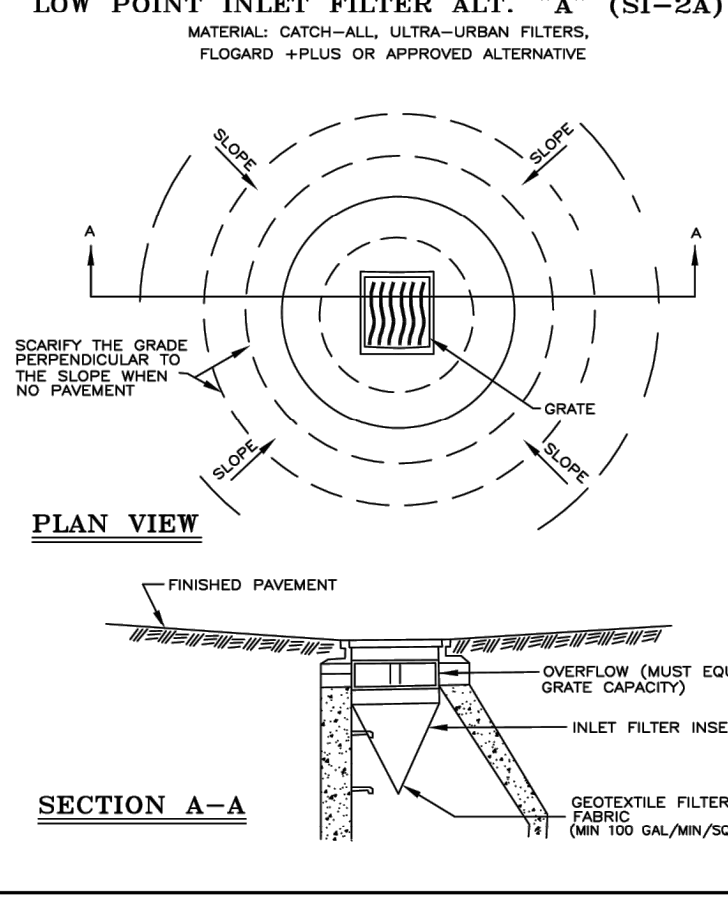
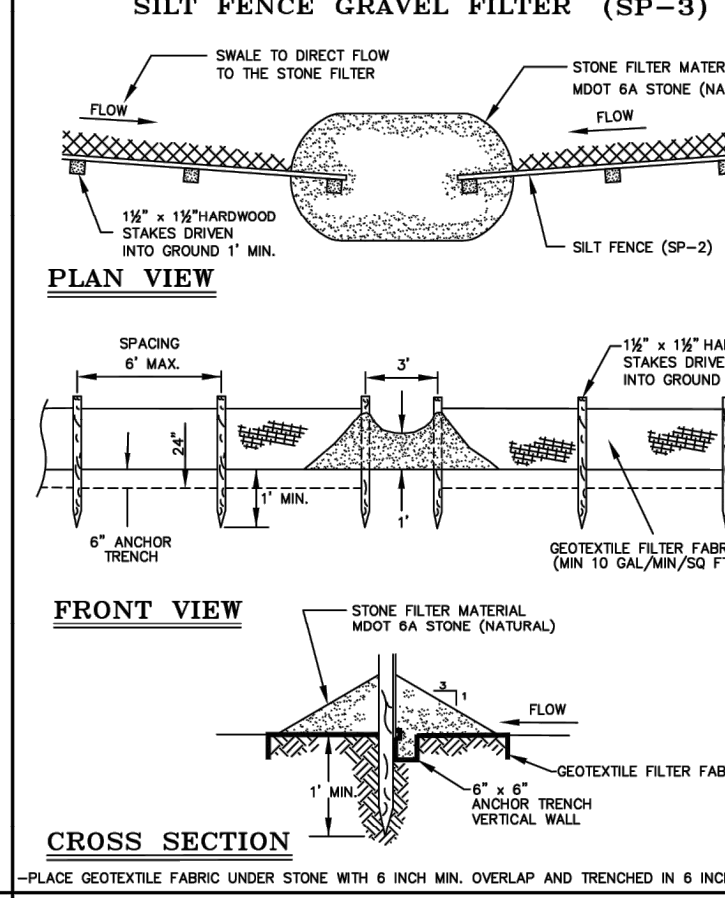
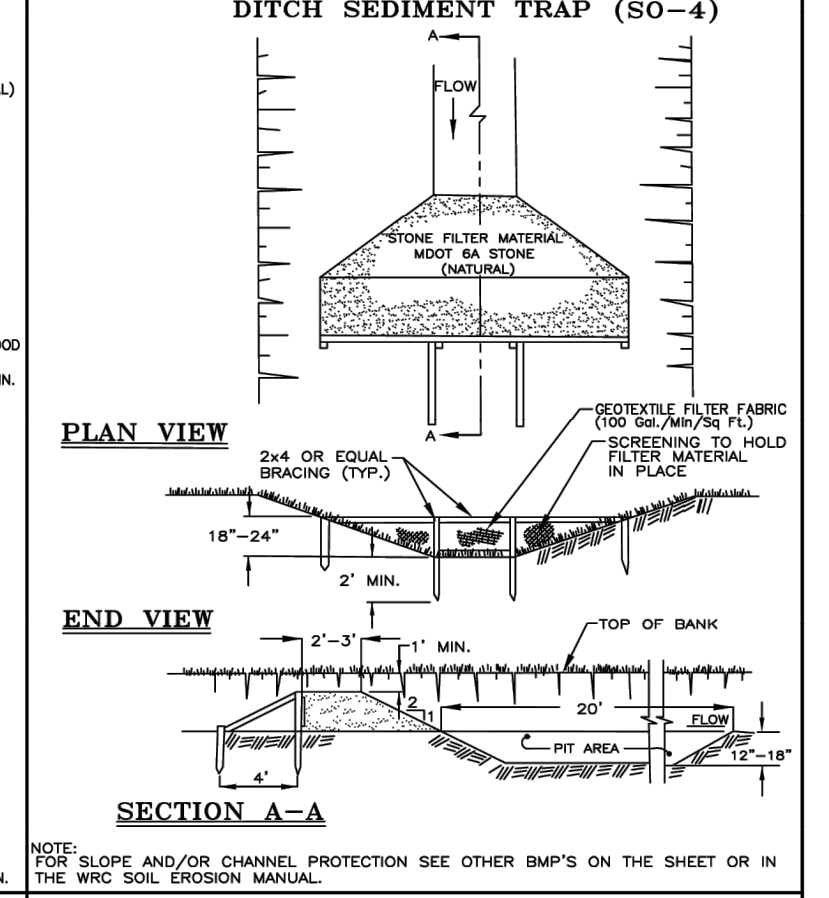
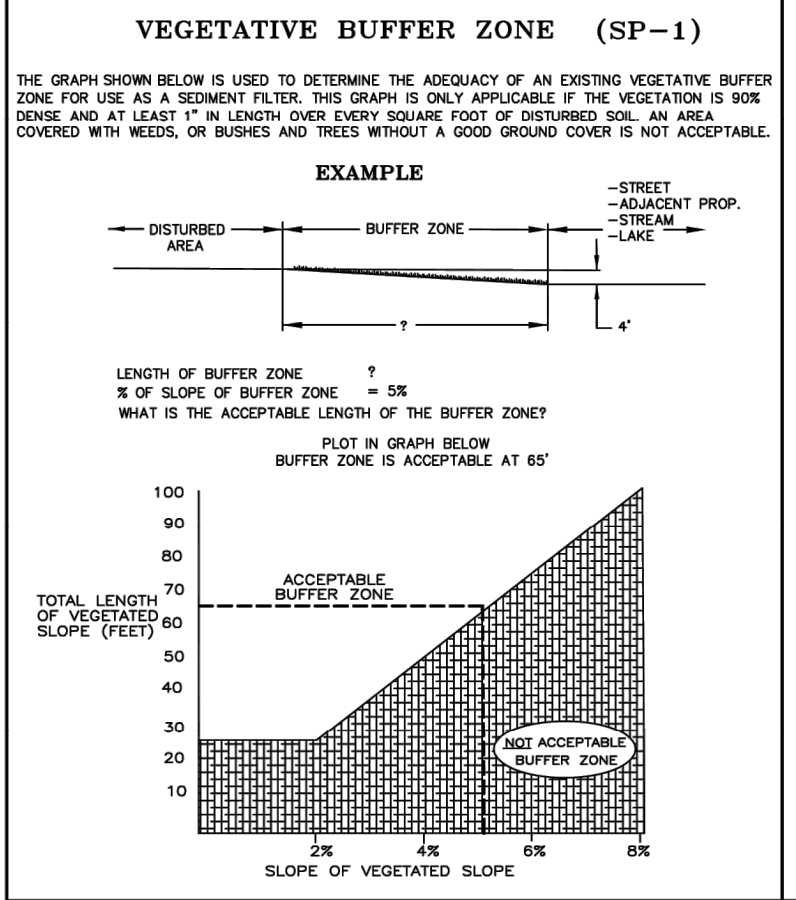
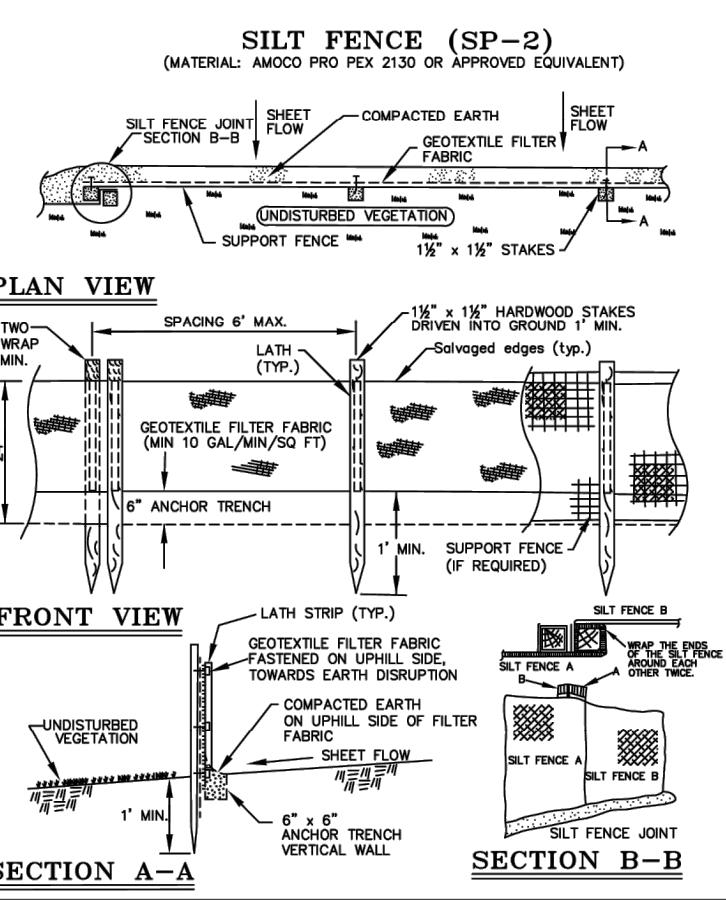
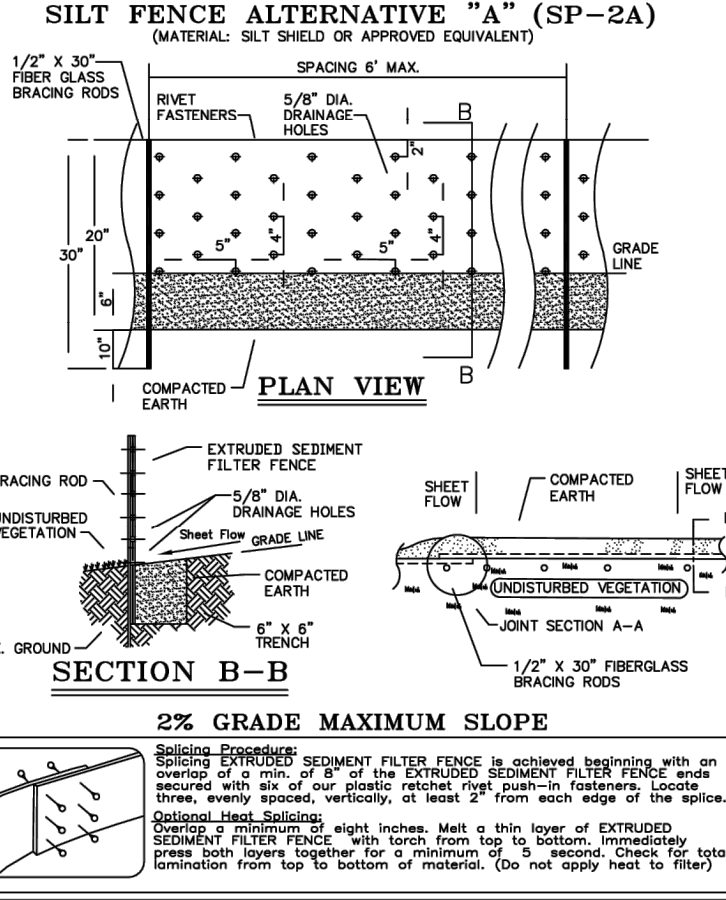
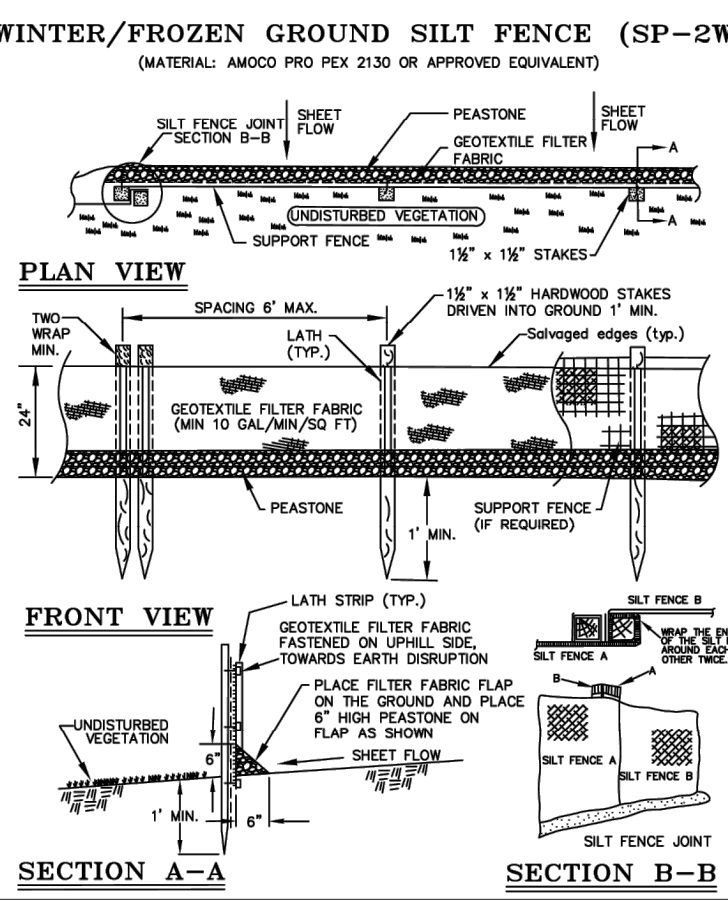
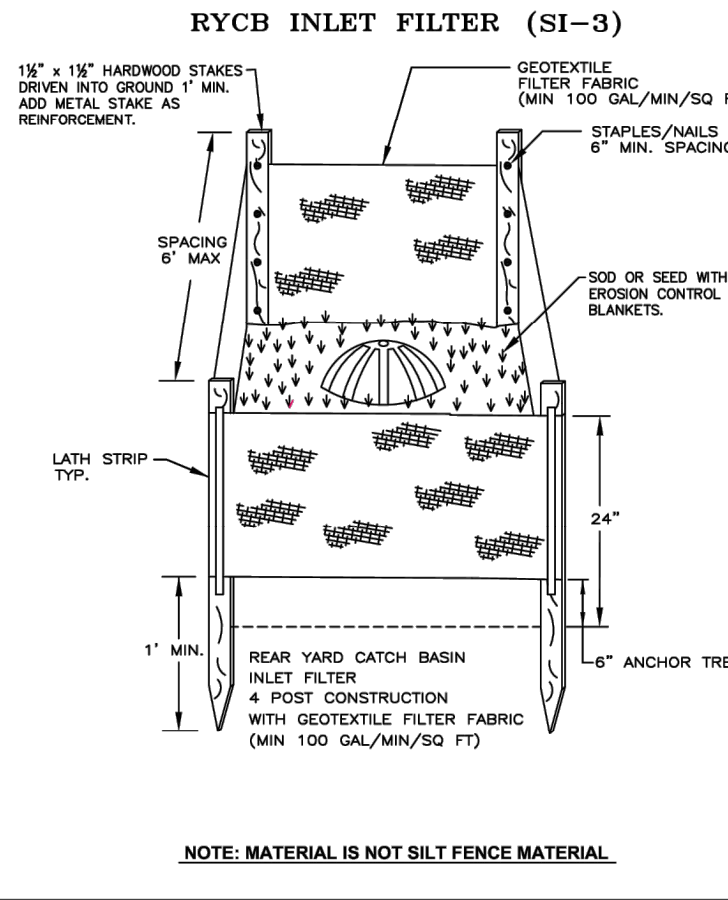
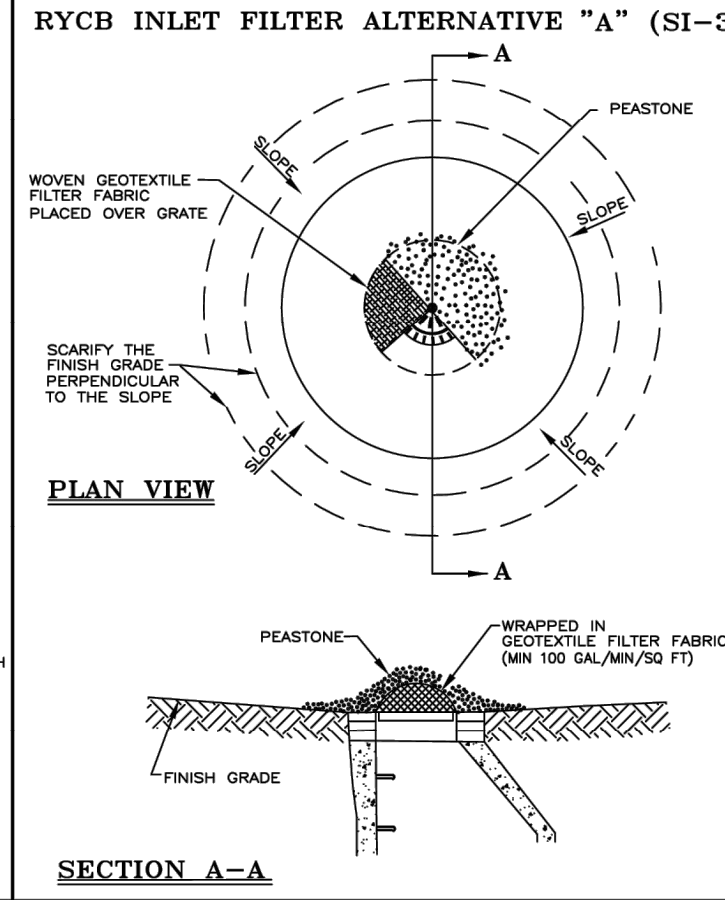
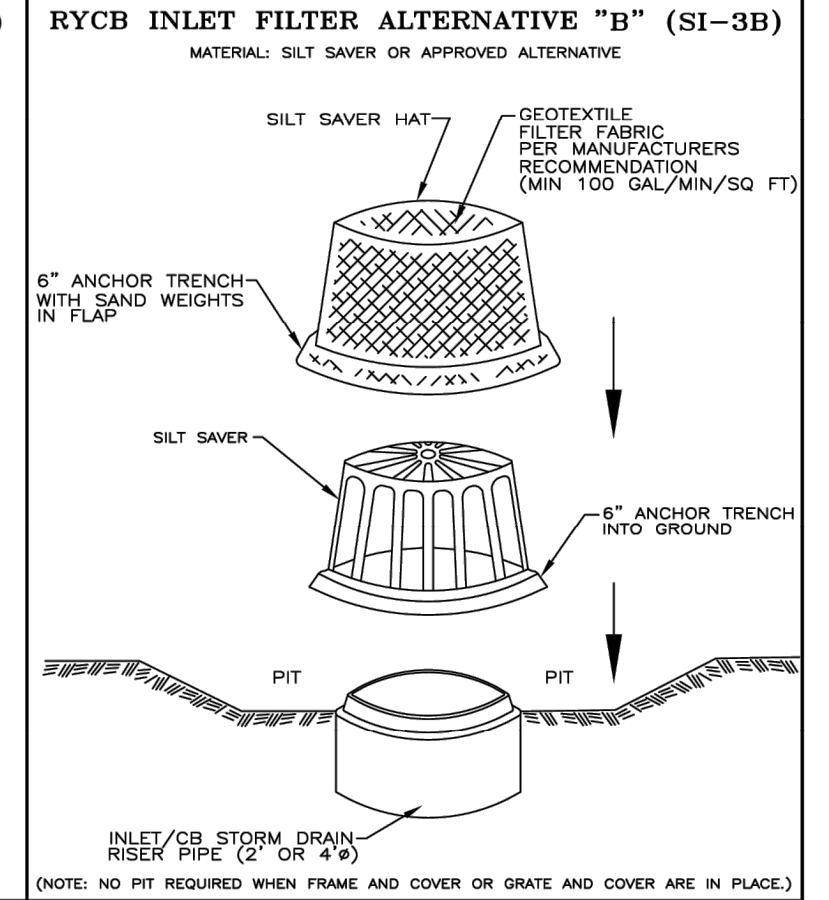
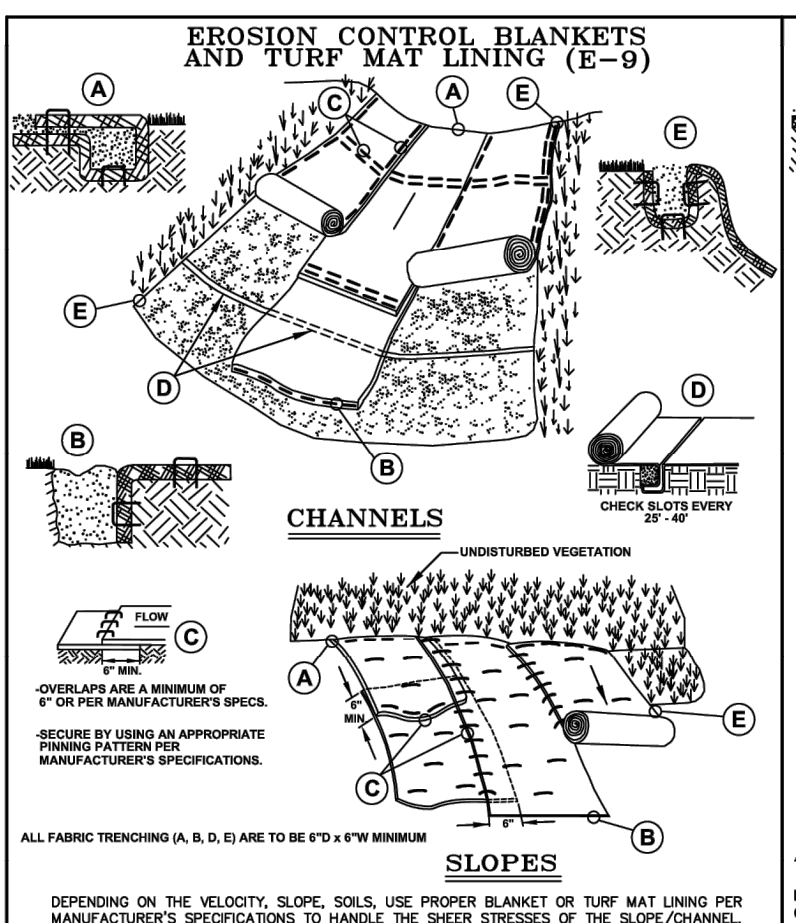
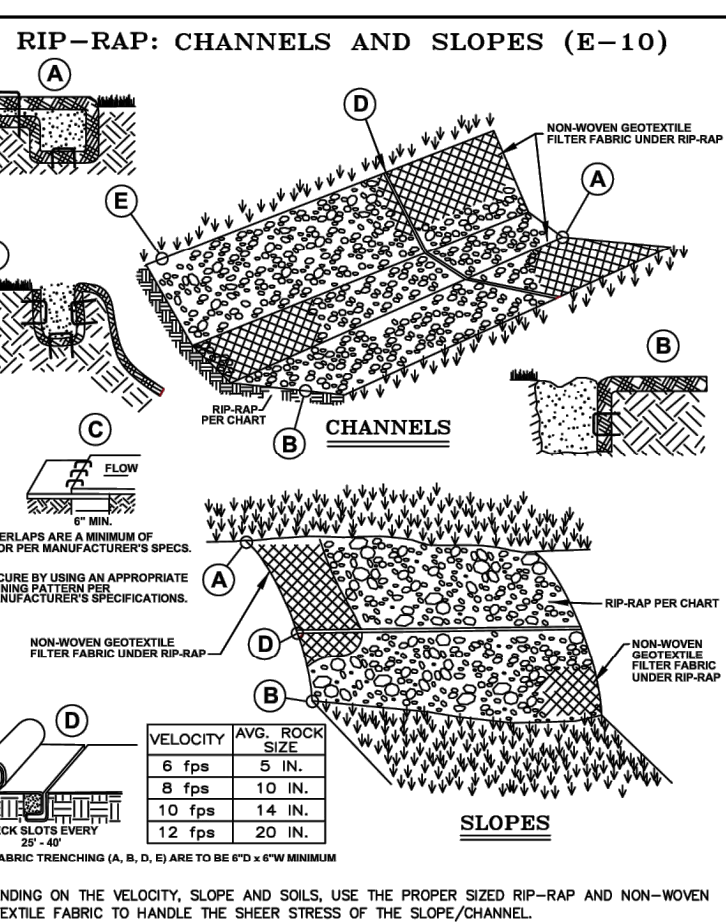
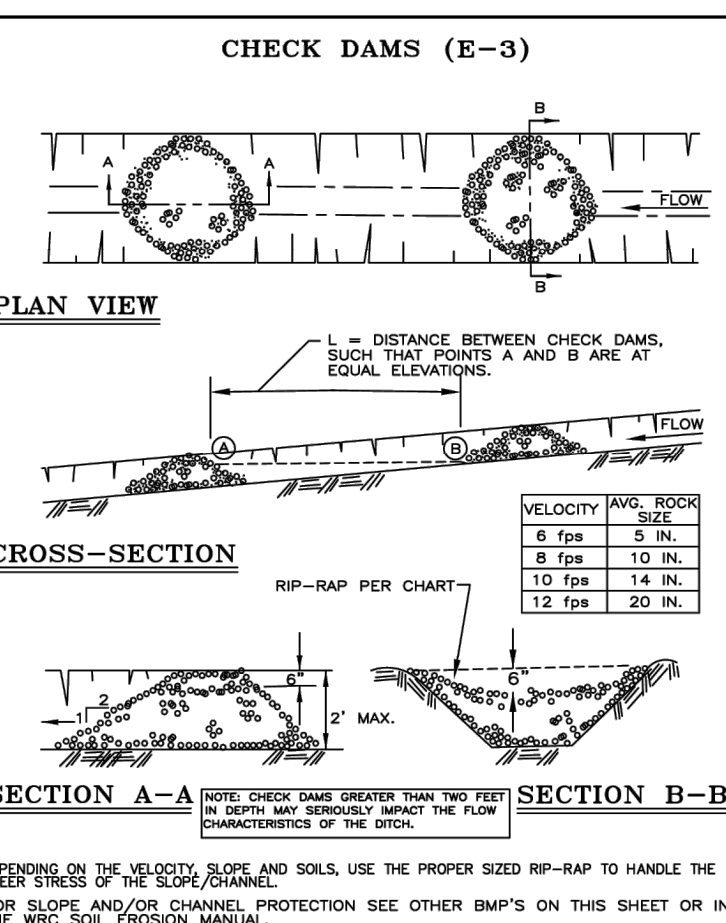
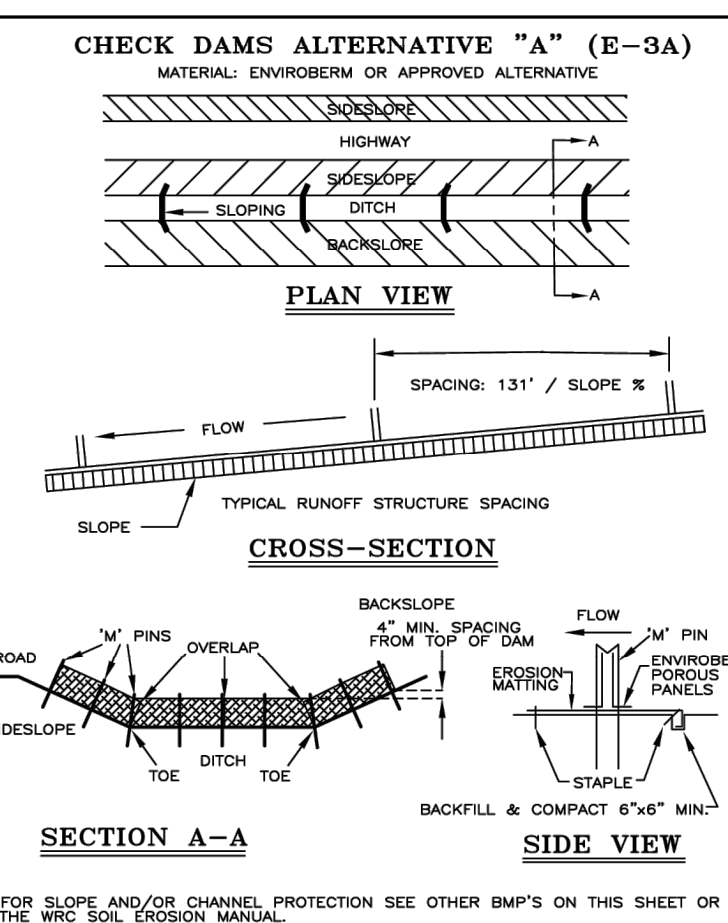
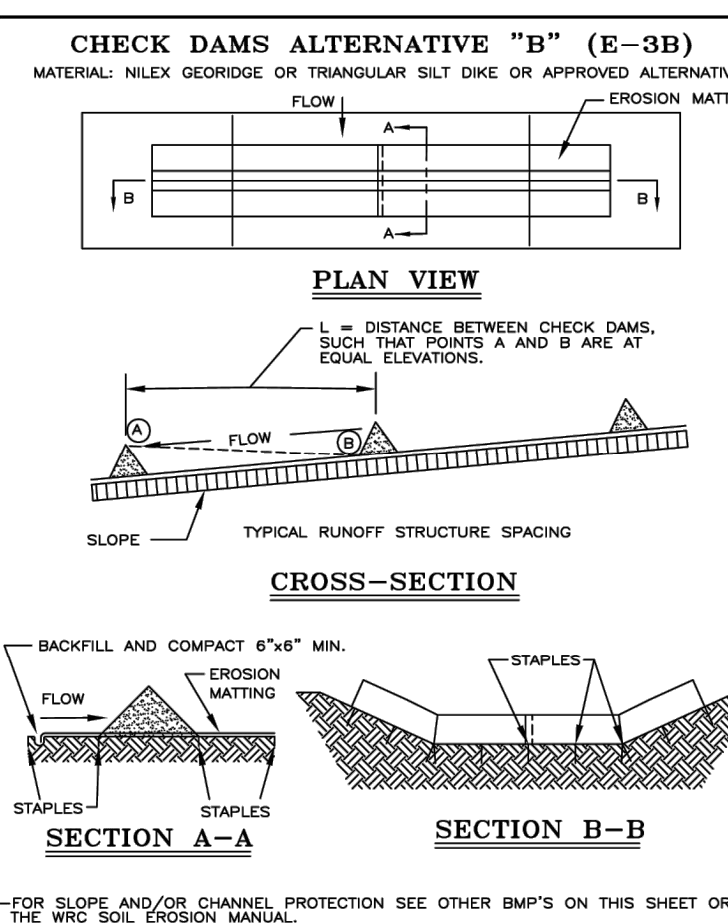
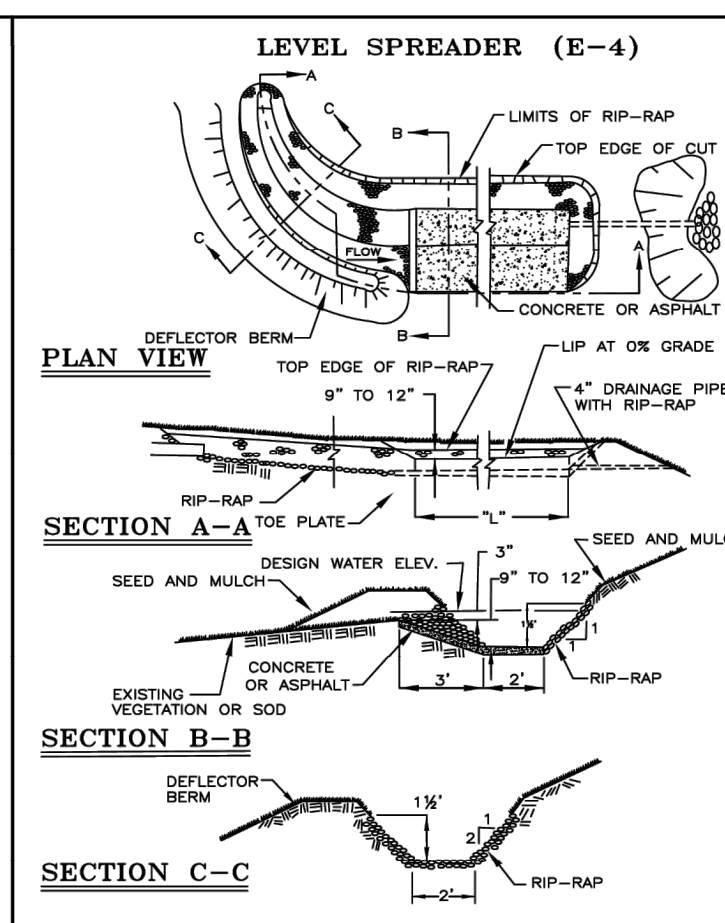
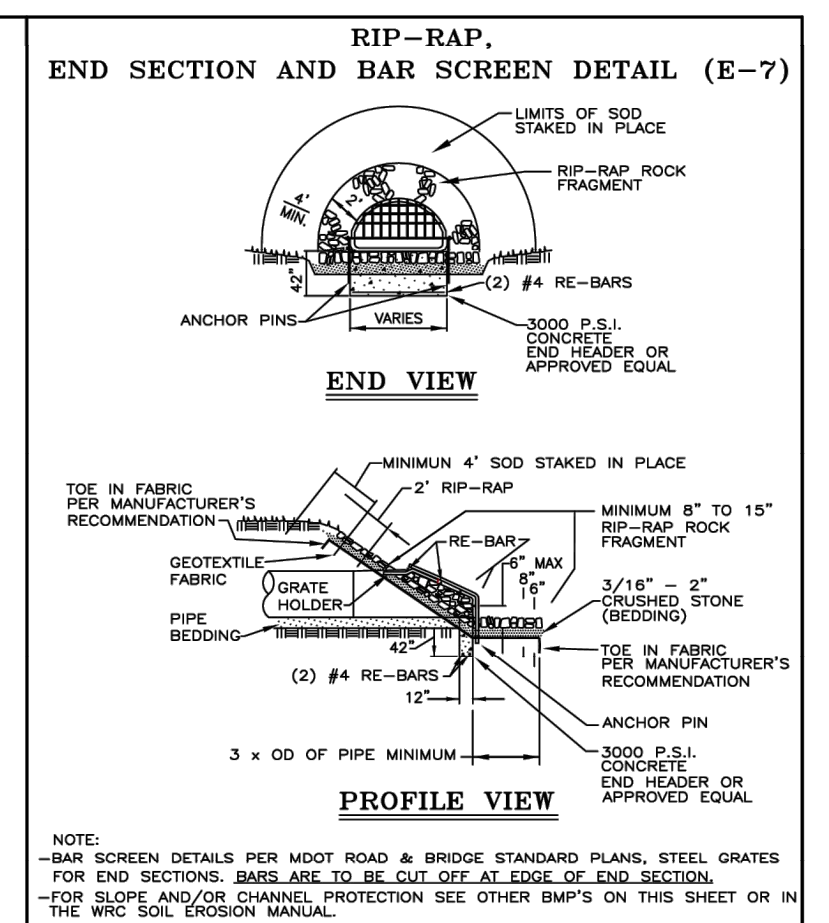
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WRC DETAILS

2025 ALLEY
RECONSTRUCTION
PROGRAM
CITY OF LATHRUP VILLAGE
OAKLAND COUNTY
MICHIGAN

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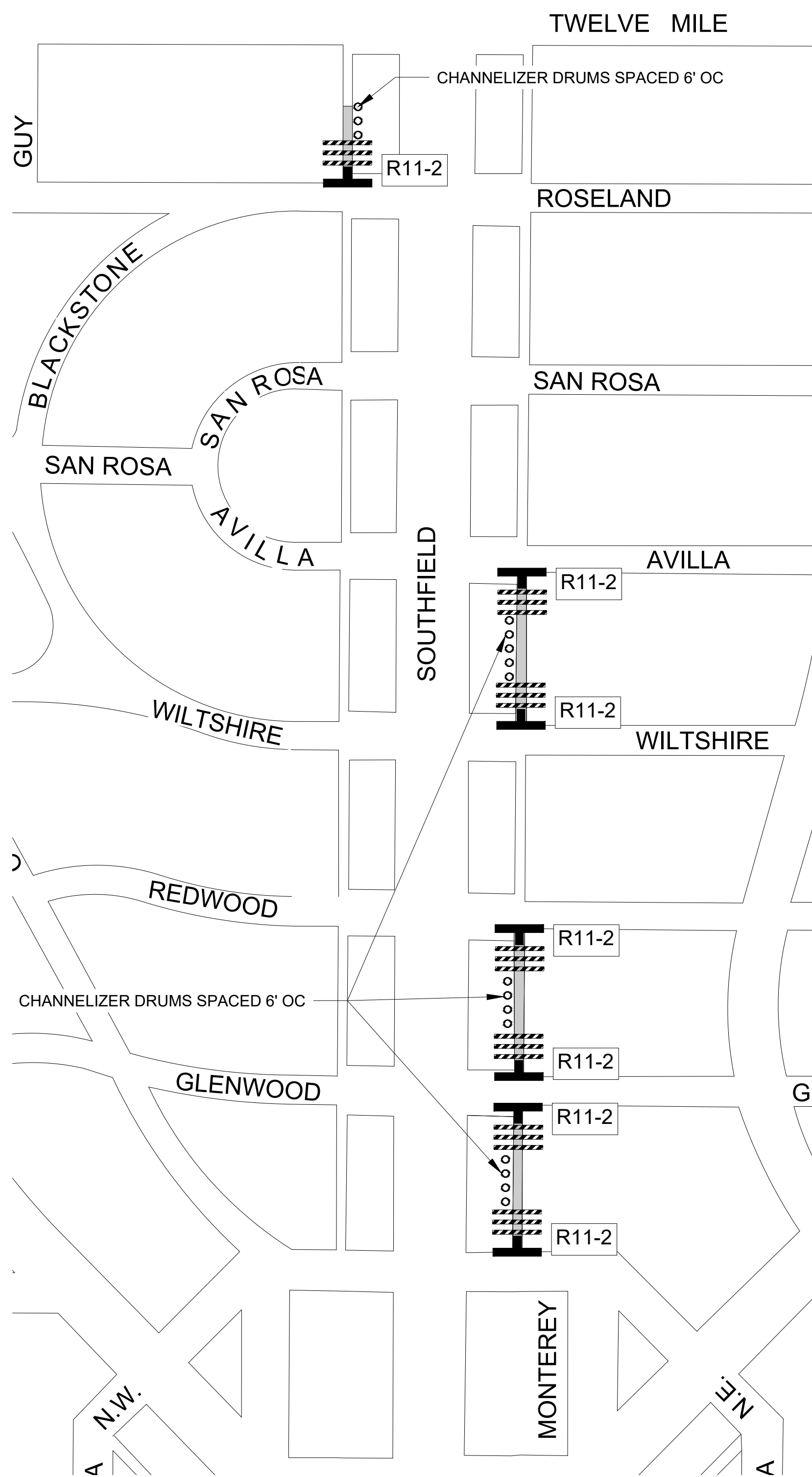


SOIL EROSION AND SEDIMENTATION CONTROL DETAILS

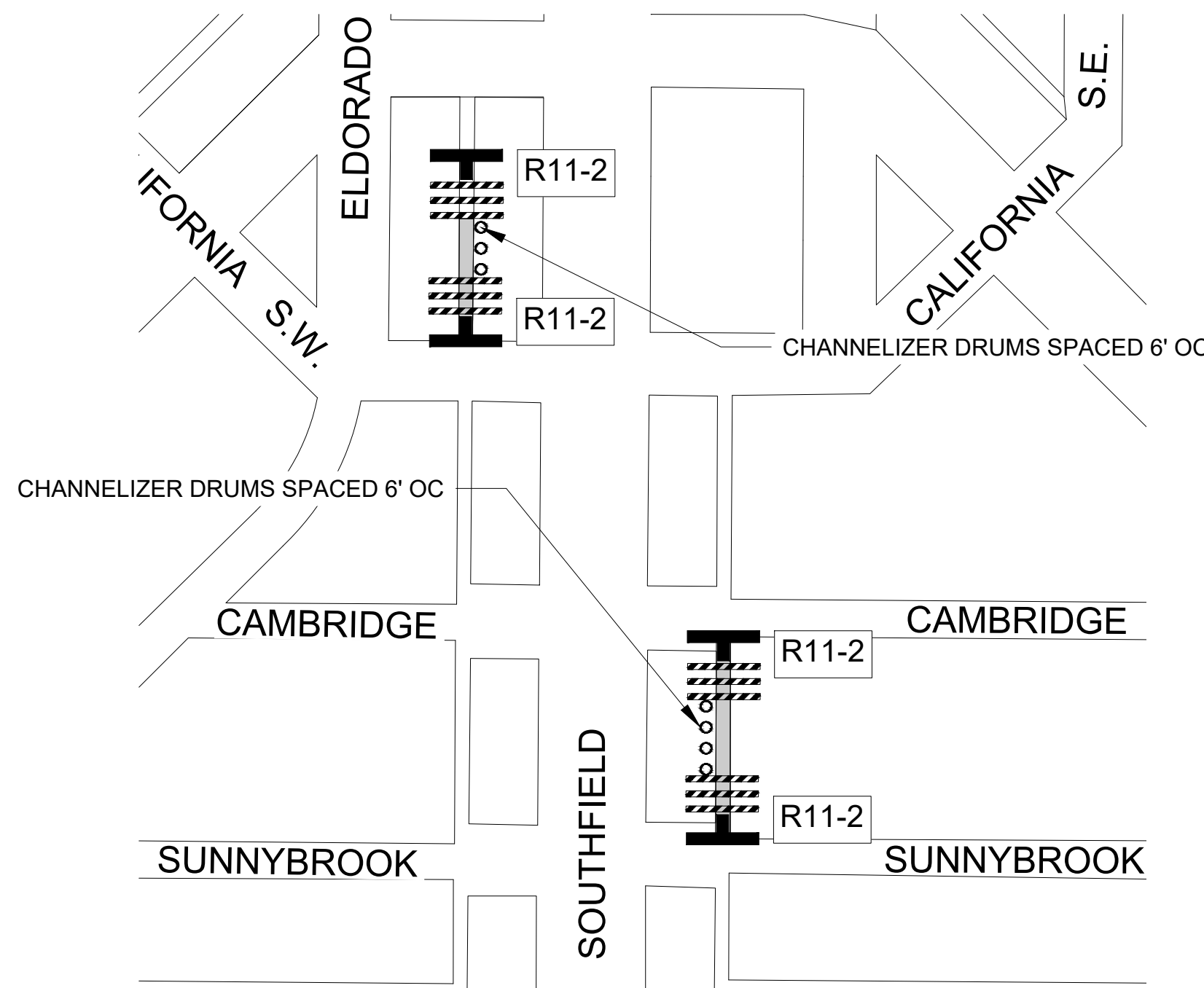
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DRAWN BY:	Mapping	DATE:	01/01/25
SCALE:	NONE	SHEET NO.:	1 of 1

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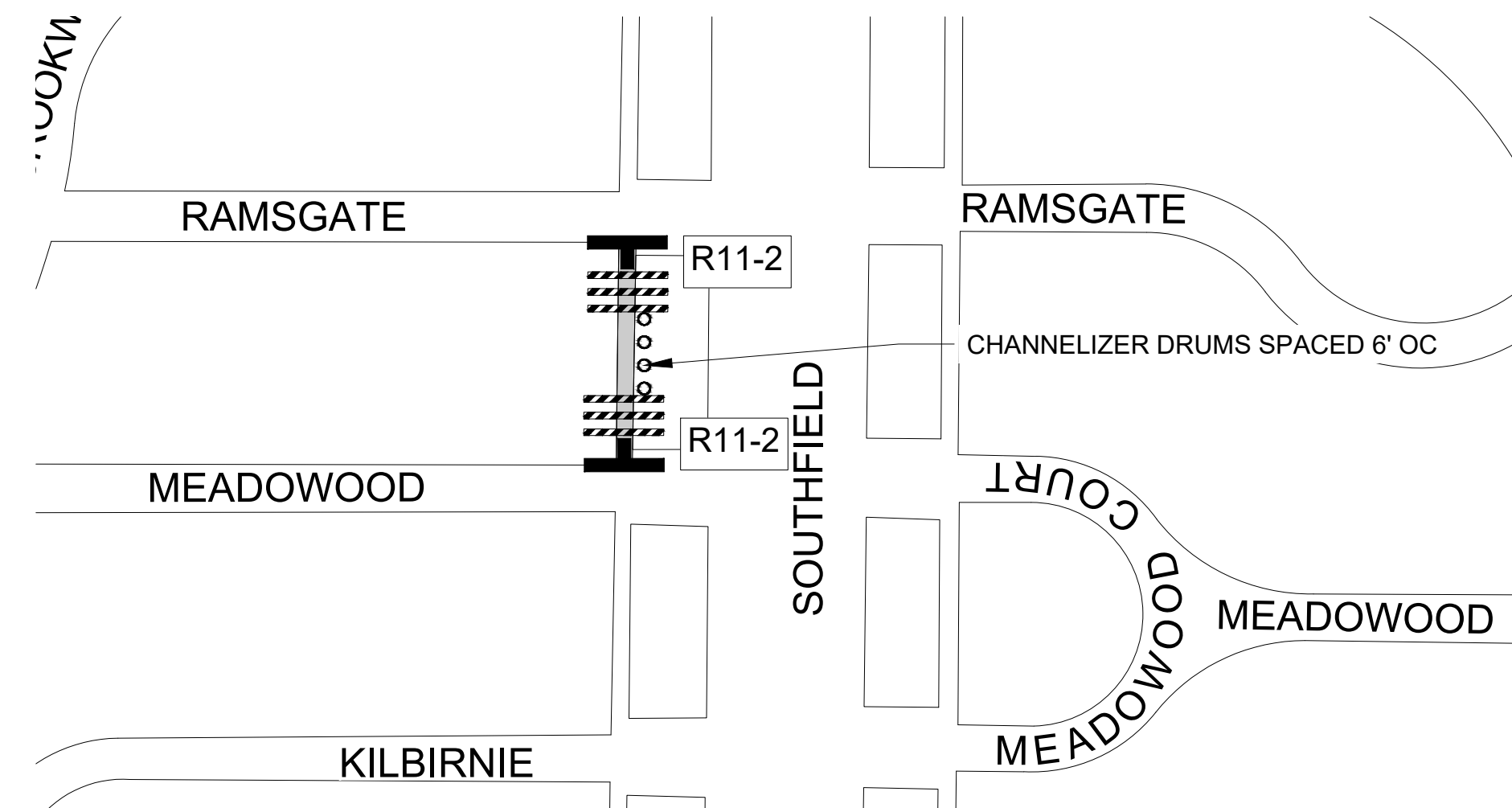
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TRAFFIC CONTROL MAP - CALIFORNIA EAST/GLENWOOD/WILTSHIRE/ROSELAND
NOT TO SCALE



TRAFFIC CONTROL MAP - SUNNYBROOK/CALIFORNIA WEST
NOT TO SCALE



TRAFFIC CONTROL MAP - MEADOWOOD
NOT TO SCALE

ESTIMATED TRAFFIC CONTROL QUANTITIES

NOTE:
THE QUANTITIES PRESENTED IN THIS TABLE REPRESENT THE MINIMUM TRAFFIC CONTROL QUANTITIES REQUIRED. ADDITIONAL TRAFFIC CONTROL DEVICES MAY BE REQUIRED. QUANTITIES PLACED THAT ARE REQUIRED TO FACILITATE CONSTRUCTION TOTALING MORE THAN THOSE LISTED IN THIS TABLE SHALL BE INCLUDED IN THE PAY ITEM TRAFFIC CONTROL.

ESTIMATED QUANTITIES (THIS SHEET)

TRAFFIC CONTROL, MAX 3% - 1 LS

STREET	TYPE III BARRICADE	R11-2	DRUM/CHANNELIZER
MIN REQ'D (TOTAL)	26	26	310
SUNNYBROOK	4	4	49
CALIFORNIA EAST	4	4	52
GLENWOOD	4	4	53
WILTSHIRE	4	4	54
MEADOWOOD	4	4	49
CALIFORNIA WEST	4	4	29
ROSELAND	2	2	24



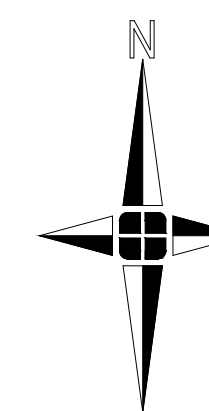
TYPE III BARRICADE (2 EA)



CHANNELIZER DRUM



R11-2 (48" x 30")



PROJECT LIMITS



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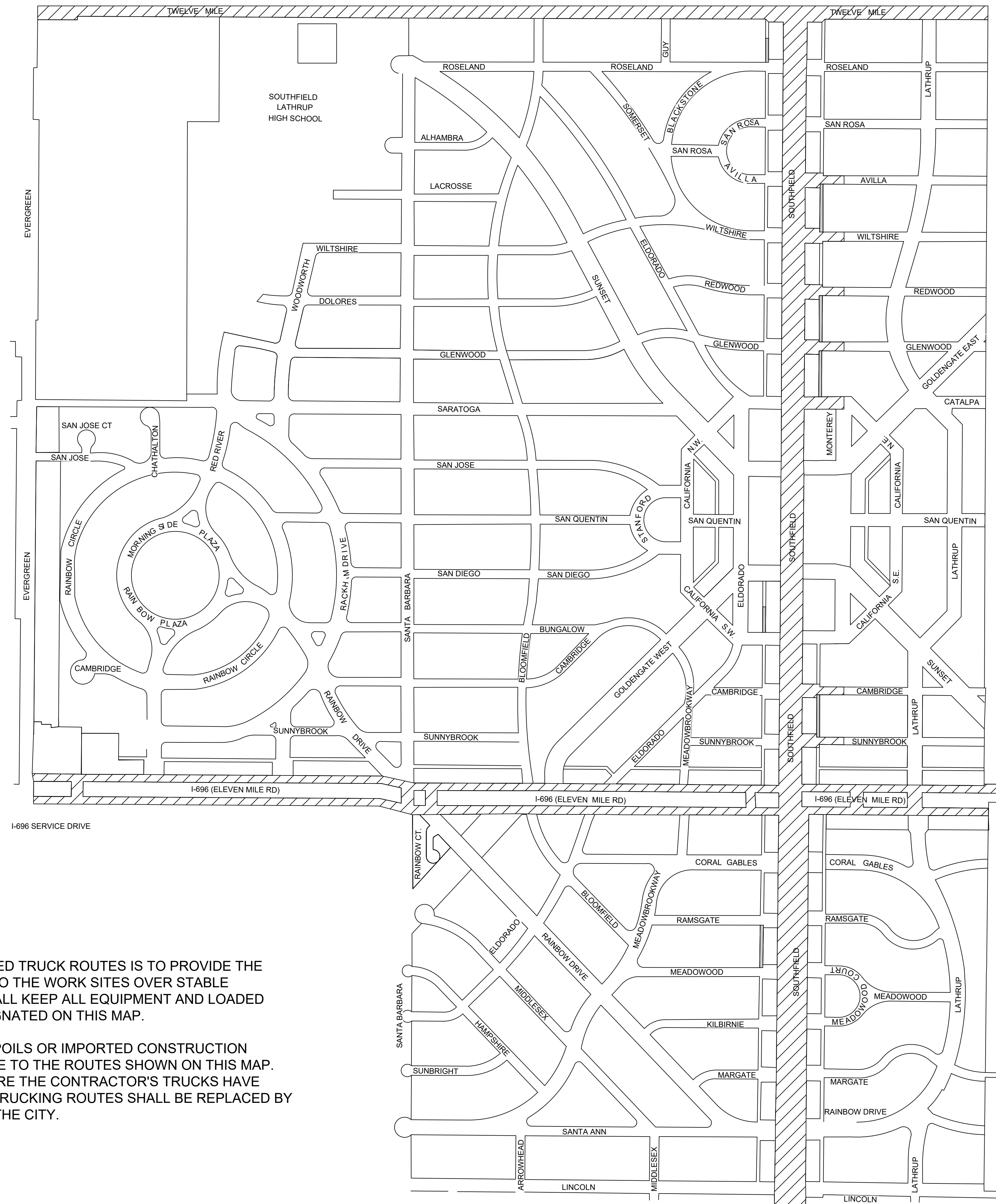
TRAFFIC CONTROL PLAN

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NOTE:

THE PURPOSE OF THESE DESIGNATED TRUCK ROUTES IS TO PROVIDE THE CONTRACTOR WITH SAFE ACCESS TO THE WORK SITES OVER STABLE PAVEMENTS. THE CONTRACTOR SHALL KEEP ALL EQUIPMENT AND LOADED TRUCKS OFF OF ROUTES NOT DESIGNATED ON THIS MAP.

TRUCKS LOADED WITH REMOVED SPOILS OR IMPORTED CONSTRUCTION MATERIALS SHALL STRICTLY ADHERE TO THE ROUTES SHOWN ON THIS MAP. DAMAGED PAVEMENTS FOUND WHERE THE CONTRACTOR'S TRUCKS HAVE DEVIATED FROM THE DESIGNATED TRUCKING ROUTES SHALL BE REPLACED BY THE CONTRACTOR AT NO COST TO THE CITY.

TRUCK ROUTE MAP

NOT TO SCALE

LOADED TRUCKS PERMITTED

PROJECT LIMITS



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TRUCK ROUTES

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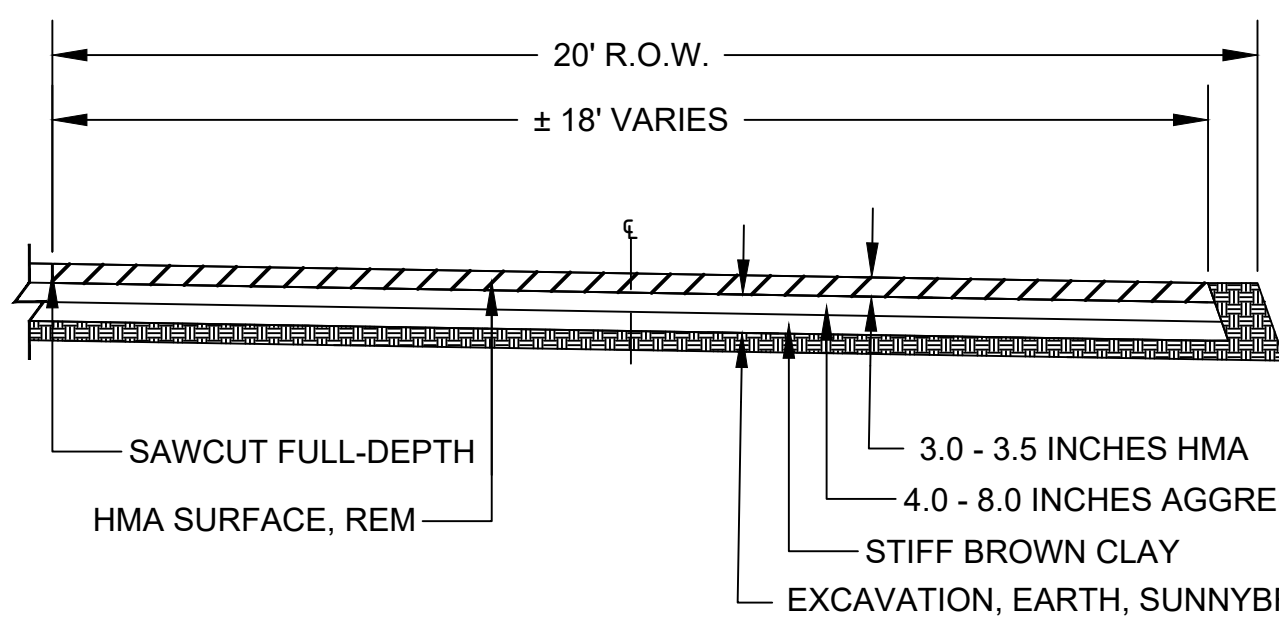
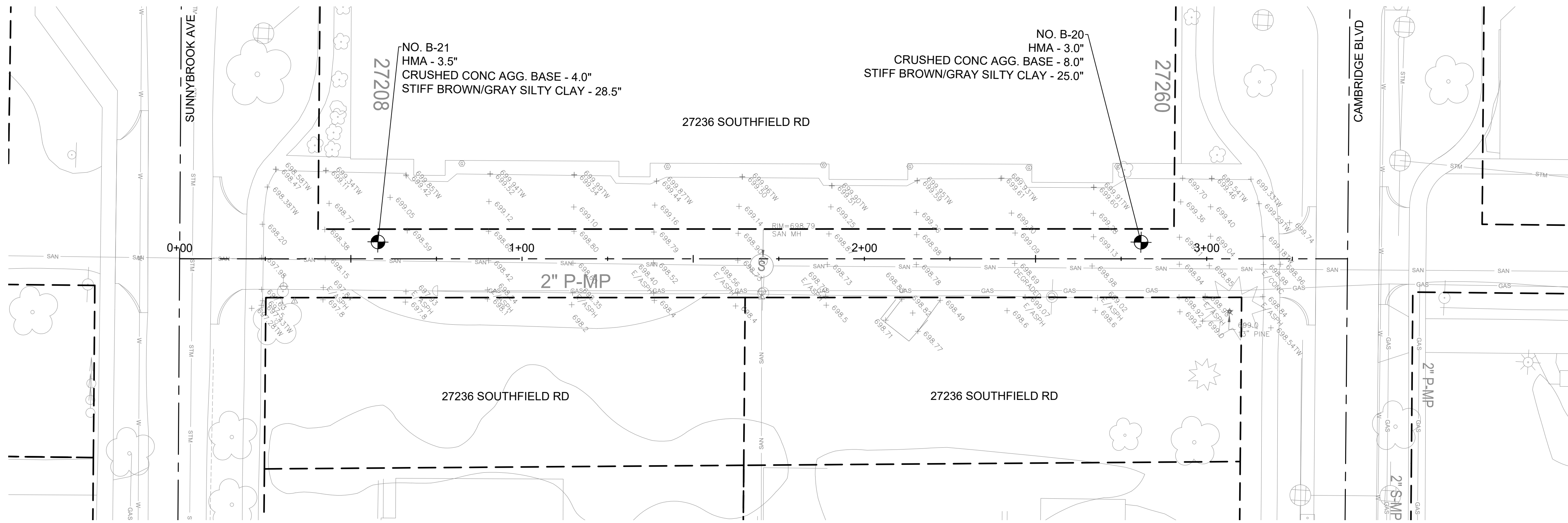
SUNNYBROOK ALLEY

2025 ALLEY
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OAKLAND COUNTY
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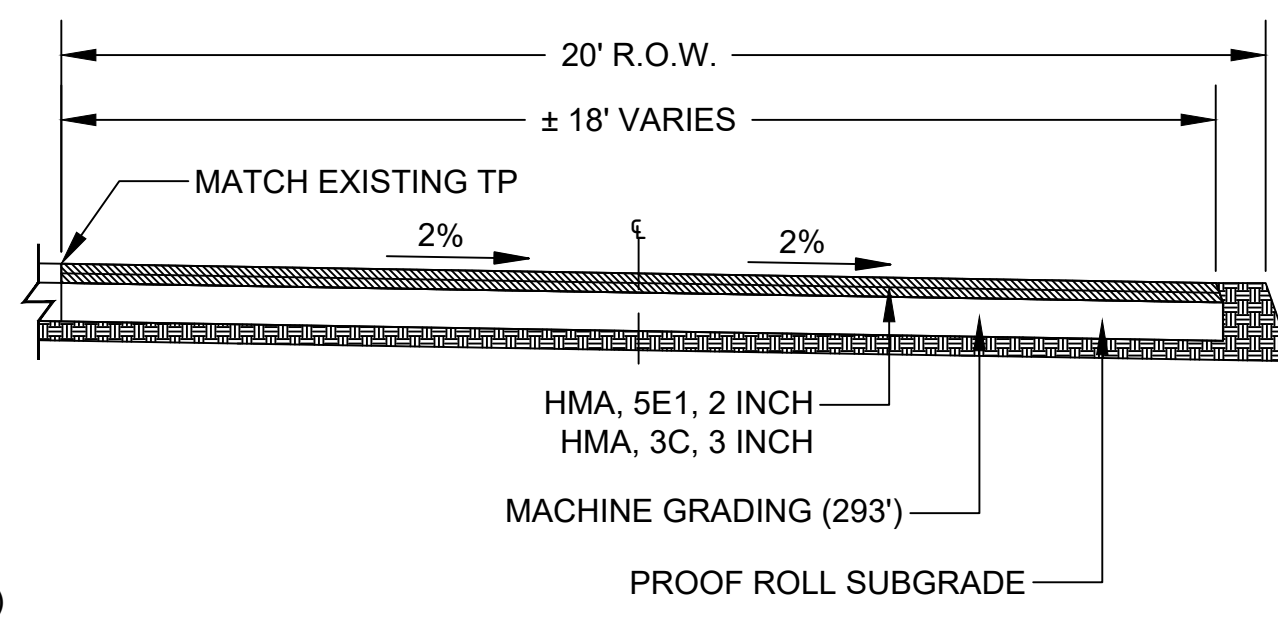
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SITE CONDITIONS



EXISTING CROSS-SECTION
0+24 TO 3+17
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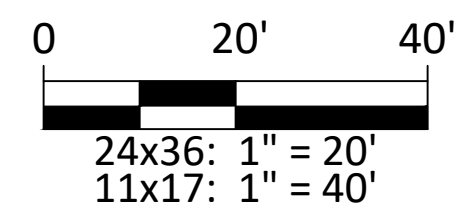
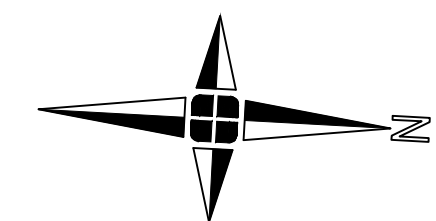
PROPOSED CROSS-SECTION
0+24 TO 3+17
(NOT TO SCALE)

ESTIMATED QUANTITIES (THIS SHEET)	QTY UNIT
EXCAVATION, EARTH, SUNNYBROOK	1 Ls
MACHINE GRADING	2.93 Sta
DR STRUCTURE COVER, ADJ, CASE 1	1 Ea
HMA SURFACE, REM	593 Syd
HMA, 3C	102 Ton
HMA, 5E1	68 Ton
LANDSCAPE RESTORATION	34 Syd
WATER, SODDING/SEEDING	0.6 Unit

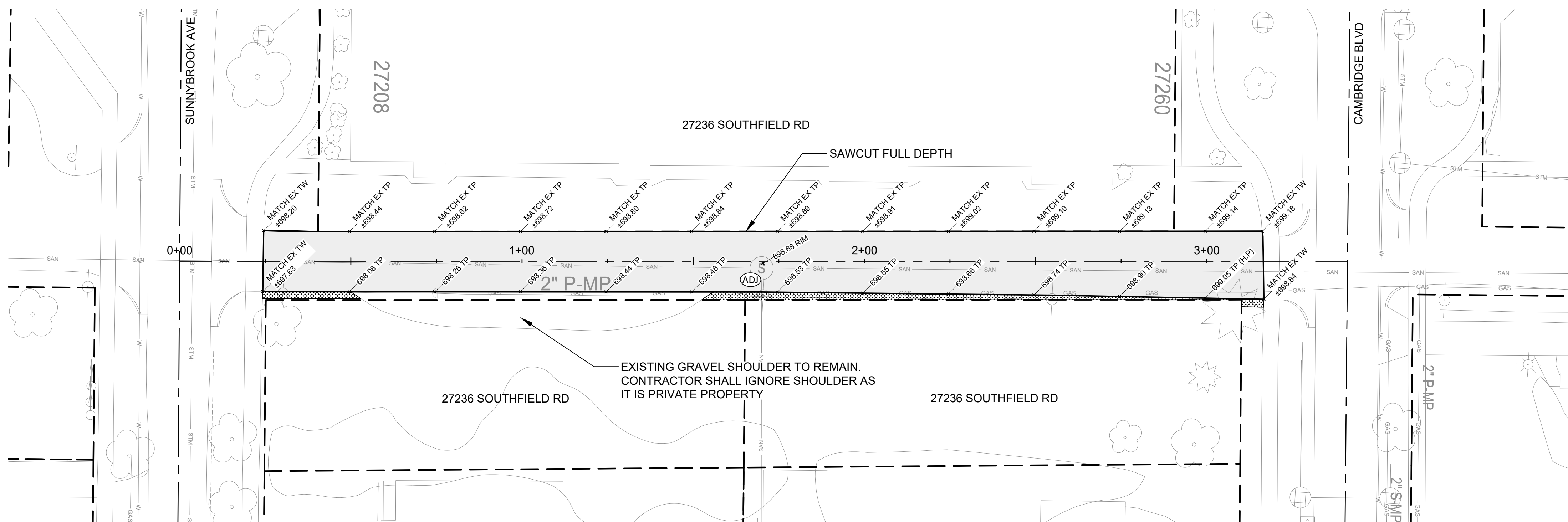
ESTIMATED EXCAVATION, EARTH, SUNNYBROOK QUANTITY: 30 CUBIC YARD.
GRADING AND SHAPING THE SUBGRADE TO THE PROPOSED CROSS SECTION
SHALL NOT BE PAID SEPARATELY AS MACHINE GRADING

LEGEND

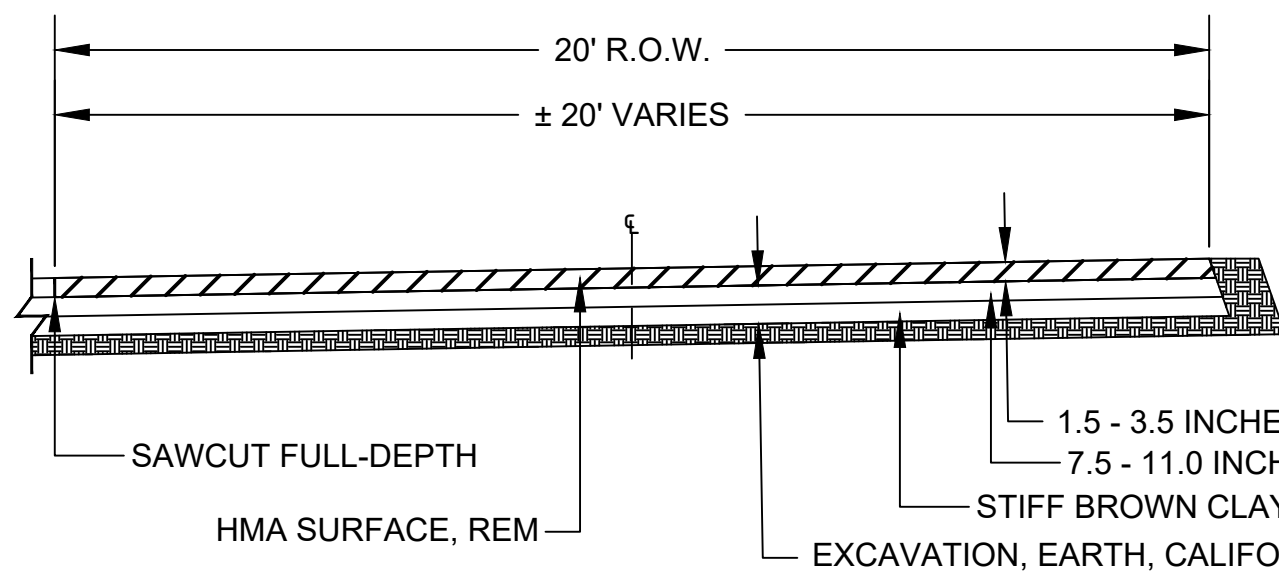
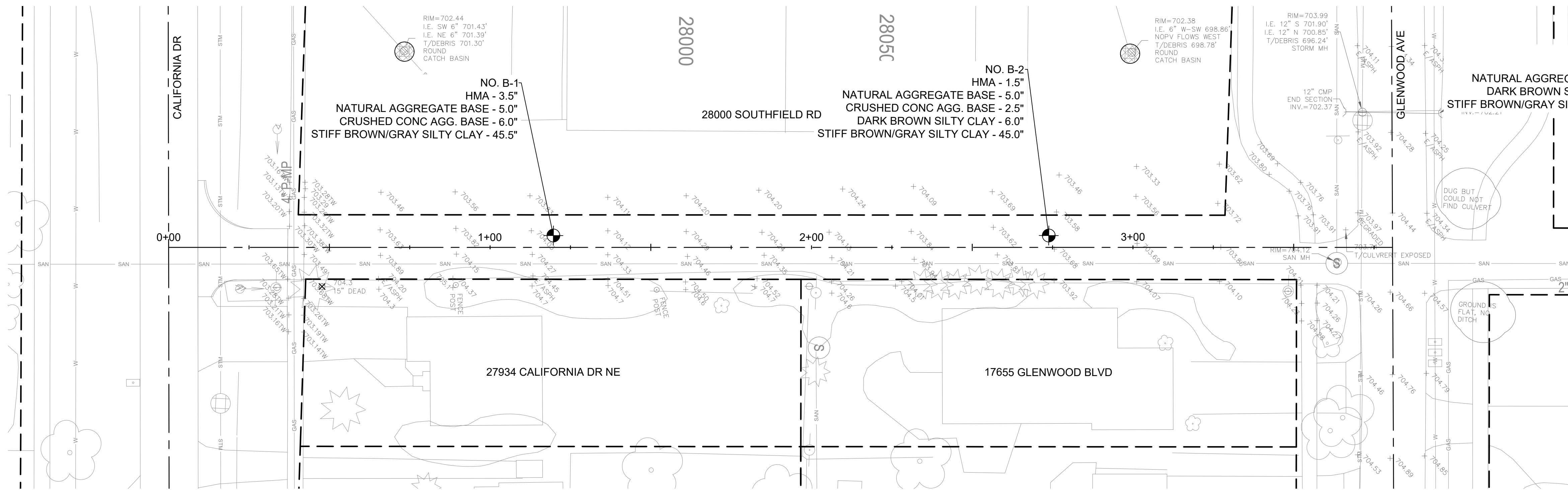
- HMA SURFACE REMOVAL & HMA PAVING
- CONCRETE APPROACH/DRIVEWAY REPLACEMENT
- CONCRETE SIDEWALK REPLACEMENT (THICKNESS SPECIFIED)
- CONCRETE CURB AND GUTTER
- HMA BUTT JOINT
- LANDSCAPE RESTORATION
- EROSION CONTROL, INLET FILTER, DROP CLOTH



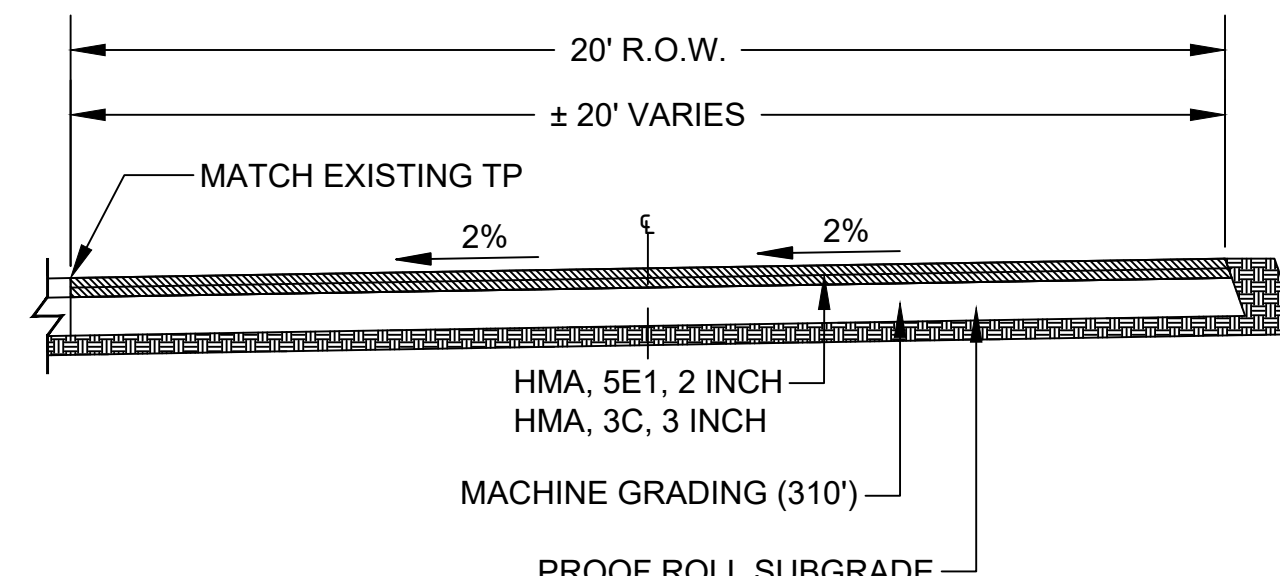
IMPROVEMENT PLAN



SITE CONDITIONS



EXISTING CROSS-SECTION
0+42 TO 3+52
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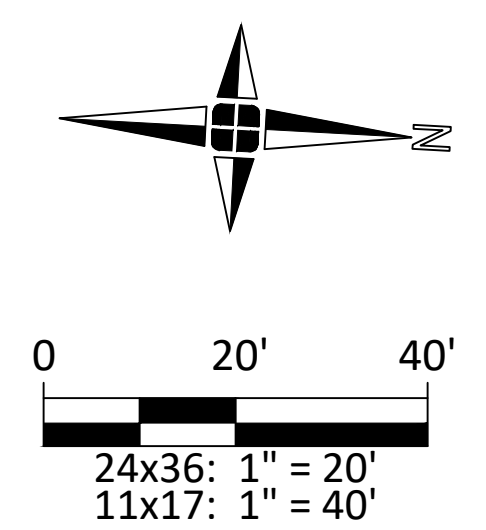


PROPOSED CROSS-SECTION
0+42 TO 3+52
(NOT TO SCALE)

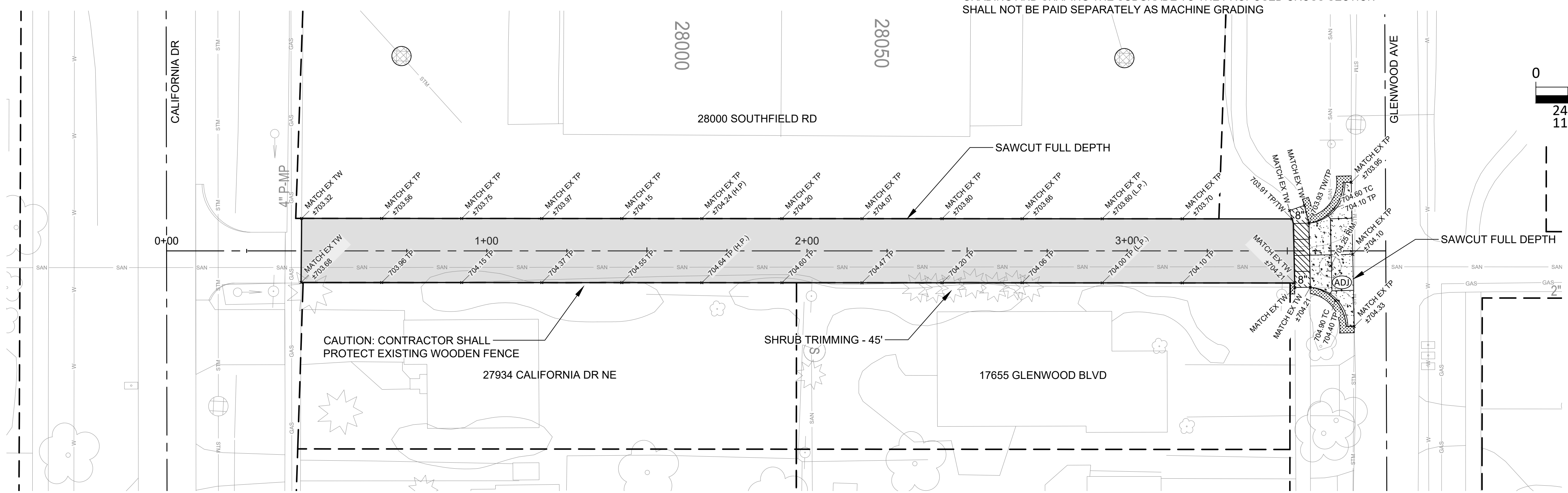
ESTIMATED QUANTITIES (THIS SHEET)	QTY UNIT
CLEARING, MODIFIED	45 Ft
SIDEWALK, REM	3 Syd
EXCAVATION, EARTH, CALIFORNIA EAST	1 Ls
MACHINE GRADING	3.10 Sta
EROSION CONTROL, INLET FILTER, DROP CLOTH	2 Ea
AGGREGATE BASE, 6 INCH, 21AA	44 Syd
DR STRUCTURE COVER, ADJ, CASE 1	1 Ea
HMA SURFACE, REM	744 Syd
HMA, 3C	119 Ton
HMA, 5E1	79 Ton
CONC PAVT WITH INTEGRAL CURB, NONREINF, 7 INCH	44 Syd
SIDEWALK, CONC, 8 INCH	121 St
LANDSCAPE RESTORATION	11 Syd
WATER, SODDING/SEEDING	0.2 Unit

LEGEND	DESCRIPTION
[Symbol]	HMA SURFACE REMOVAL & HMA PAVING
[Symbol]	CONCRETE APPROACH/DRIVEWAY REPLACEMENT
[Symbol]	CONCRETE SIDEWALK REPLACEMENT (THICKNESS SPECIFIED)
[Symbol]	CONCRETE CURB AND GUTTER
[Symbol]	HMA BUTT JOINT
[Symbol]	LANDSCAPE RESTORATION
[Symbol]	EROSION CONTROL, INLET FILTER, DROP CLOTH

ESTIMATED EXCAVATION, EARTH, CALIFORNIA EAST QUANTITY: 60 CUBIC YARD.
GRADING AND SHAPING THE SUBGRADE TO THE PROPOSED CROSS SECTION SHALL NOT BE PAID SEPARATELY AS MACHINE GRADING



IMPROVEMENT PLAN



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CALIFORNIA EAST ALLEY

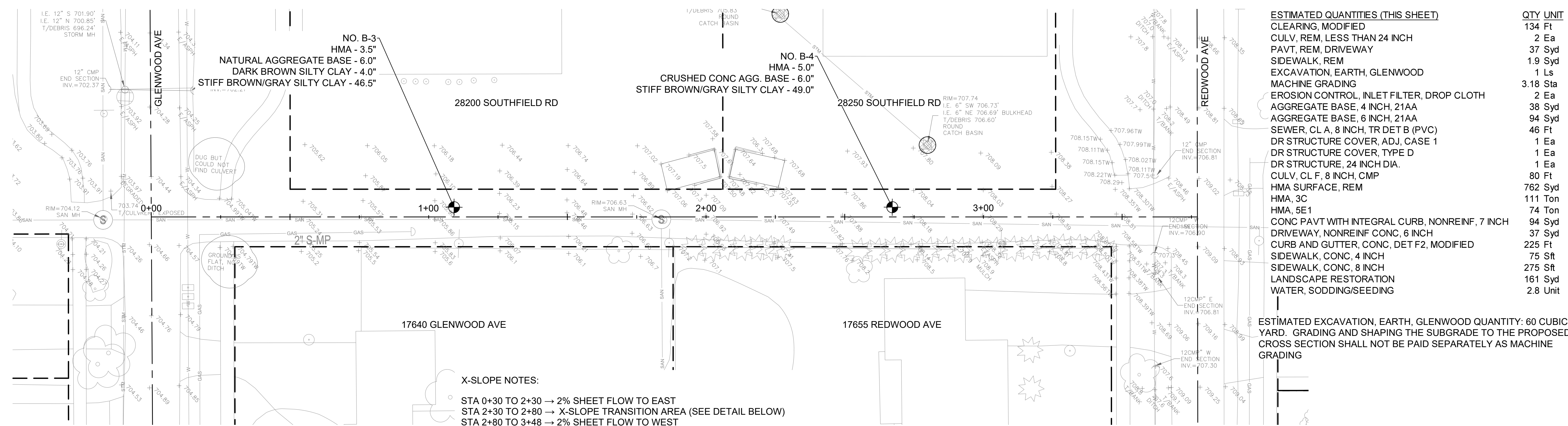
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CITY OF LATHRUP VILLAGE
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SITE CONDITIONS



ESTIMATED QUANTITIES (THIS SHEET)

QTY	UNIT
134	Ft
2	Ea
37	Syd
1.9	Syd
1	Ls
3.18	Sta
2	Ea
38	Syd
94	Syd
46	Ft
1	Ea
1	Ea
1	Ea
80	Ft
762	Syd
111	Ton
74	Ton
94	Syd
37	Syd
225	Ft
75	Sft
275	Sft
161	Syd
2.8	Unit

ESTIMATED EXCAVATION, EARTH, GLENWOOD QUANTITY: 60 CUBIC YARD. GRADING AND SHAPING THE SUBGRADE TO THE PROPOSED CROSS SECTION SHALL NOT BE PAID SEPARATELY AS MACHINE GRADING



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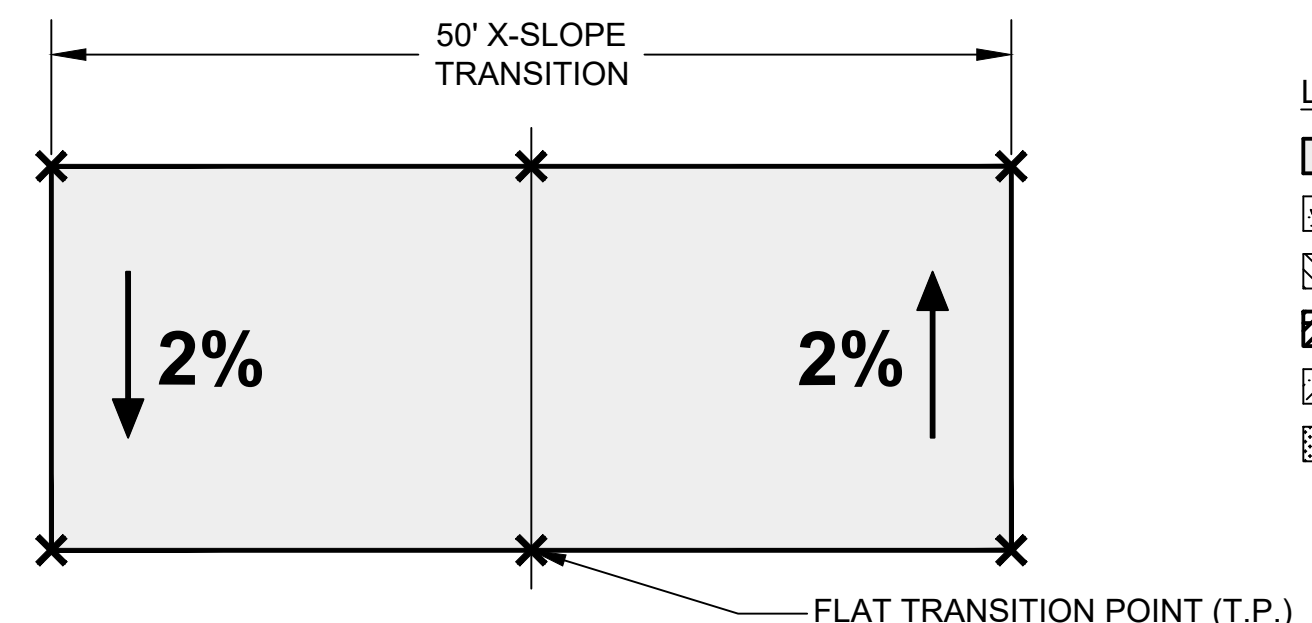
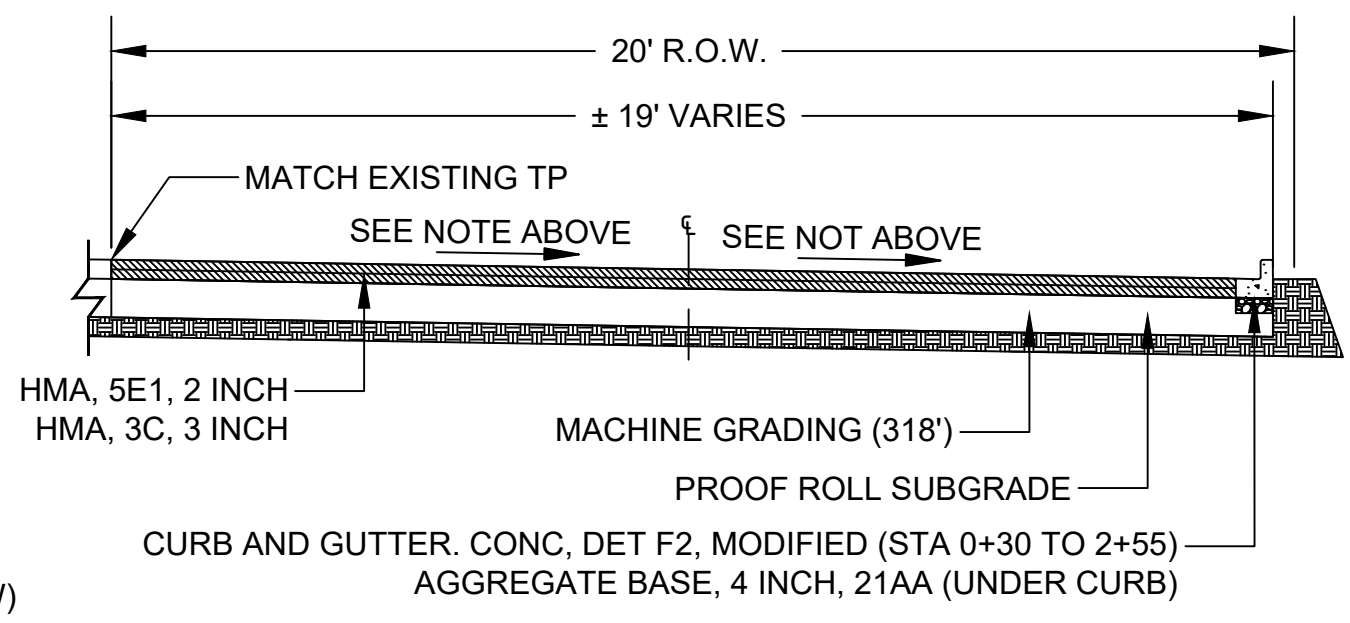
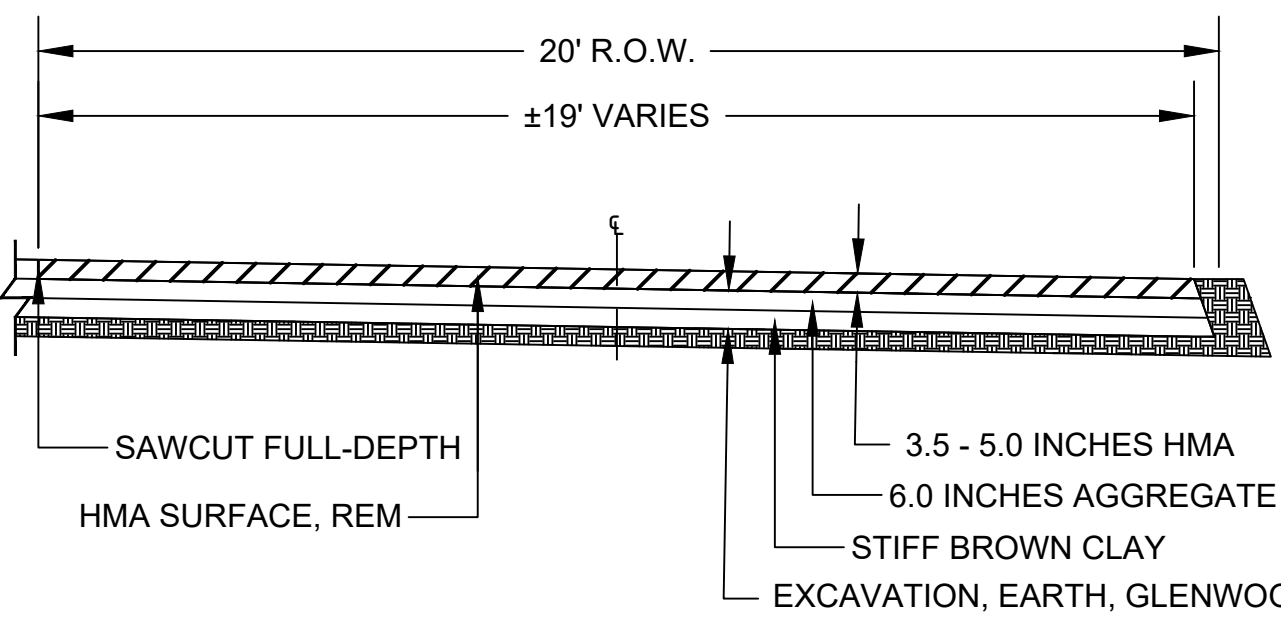
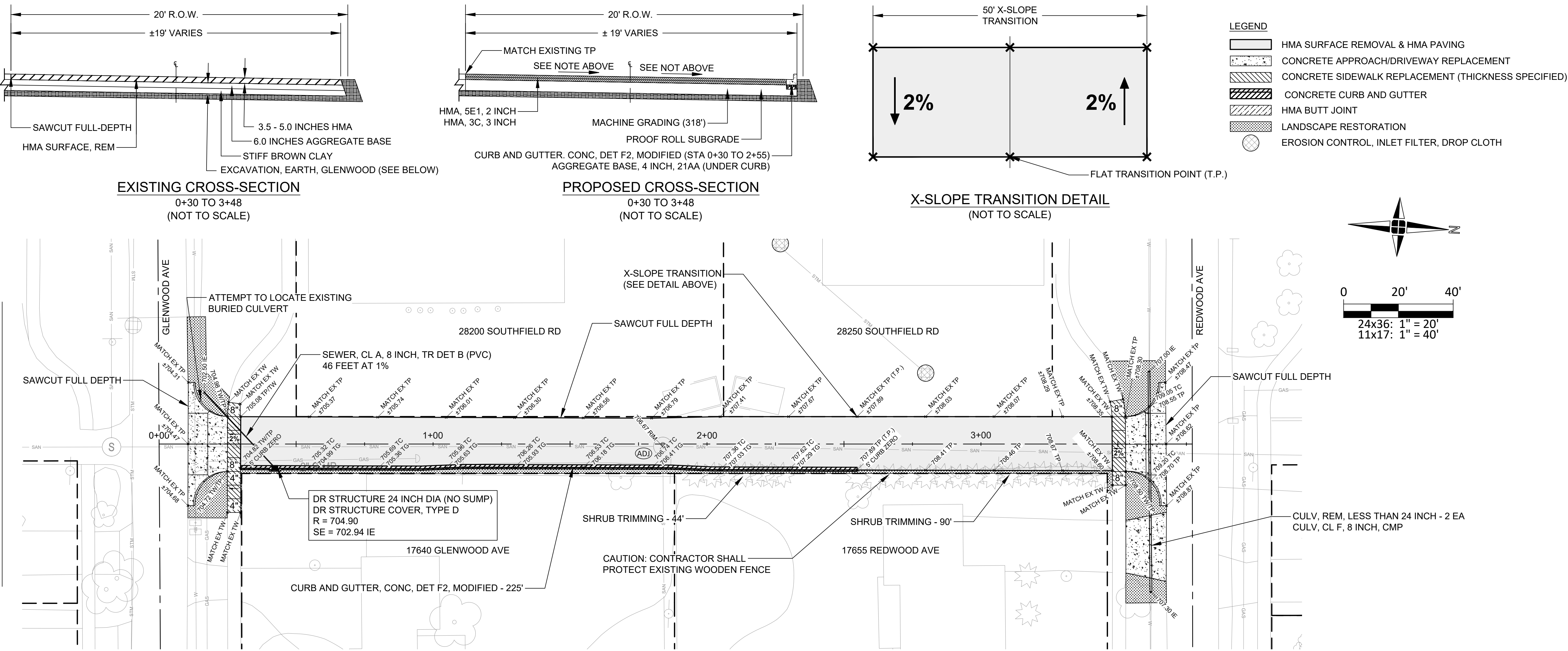
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GLENWOOD ALLEY

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OAKLAND COUNTY
MICHIGAN

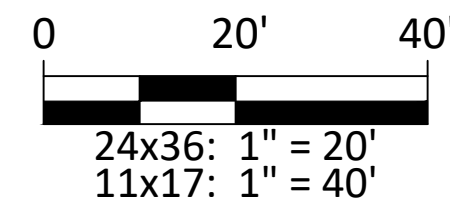
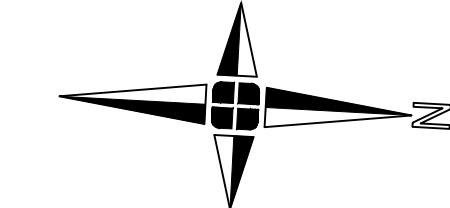
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LEGEND

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- CONCRETE SIDEWALK REPLACEMENT (THICKNESS SPECIFIED)
- CONCRETE CURB AND GUTTER
- HMA BUTT JOINT
- LANDSCAPE RESTORATION
- EROSION CONTROL, INLET FILTER, DROP CLOTH





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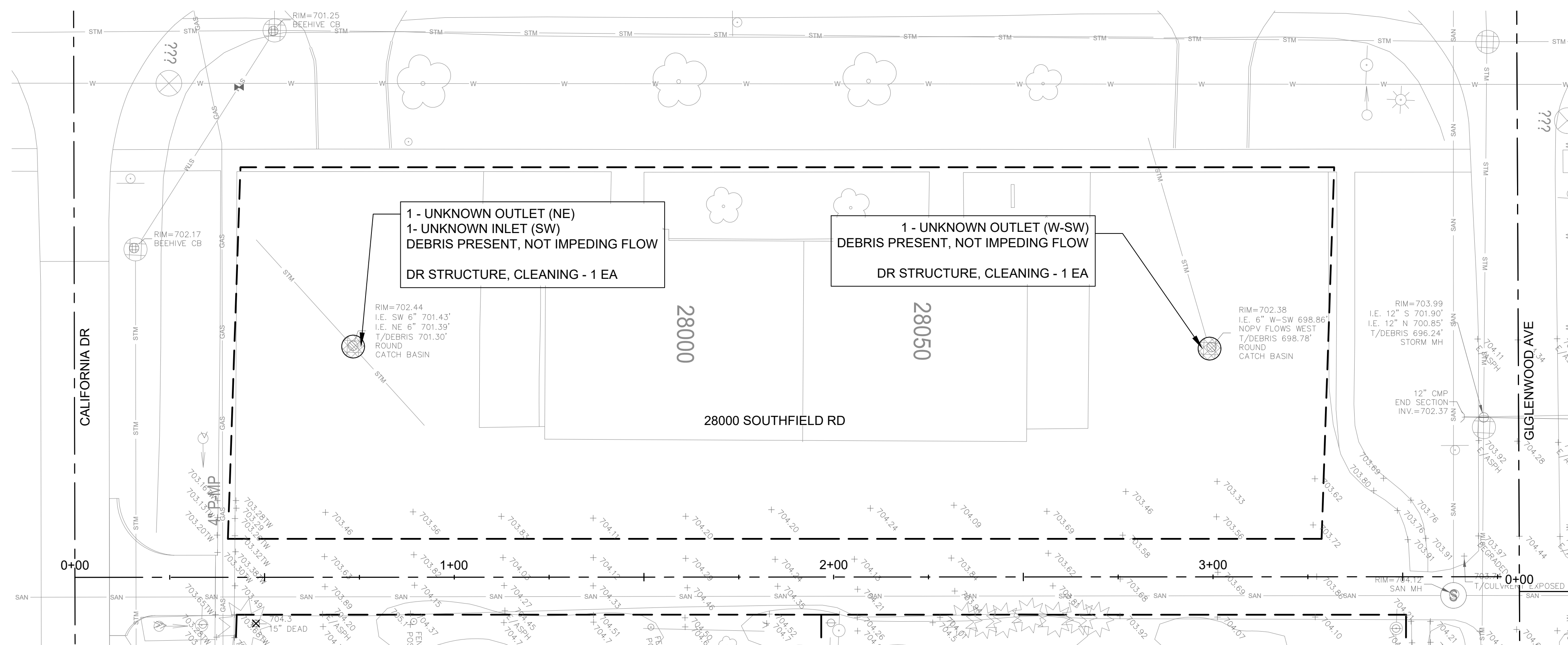
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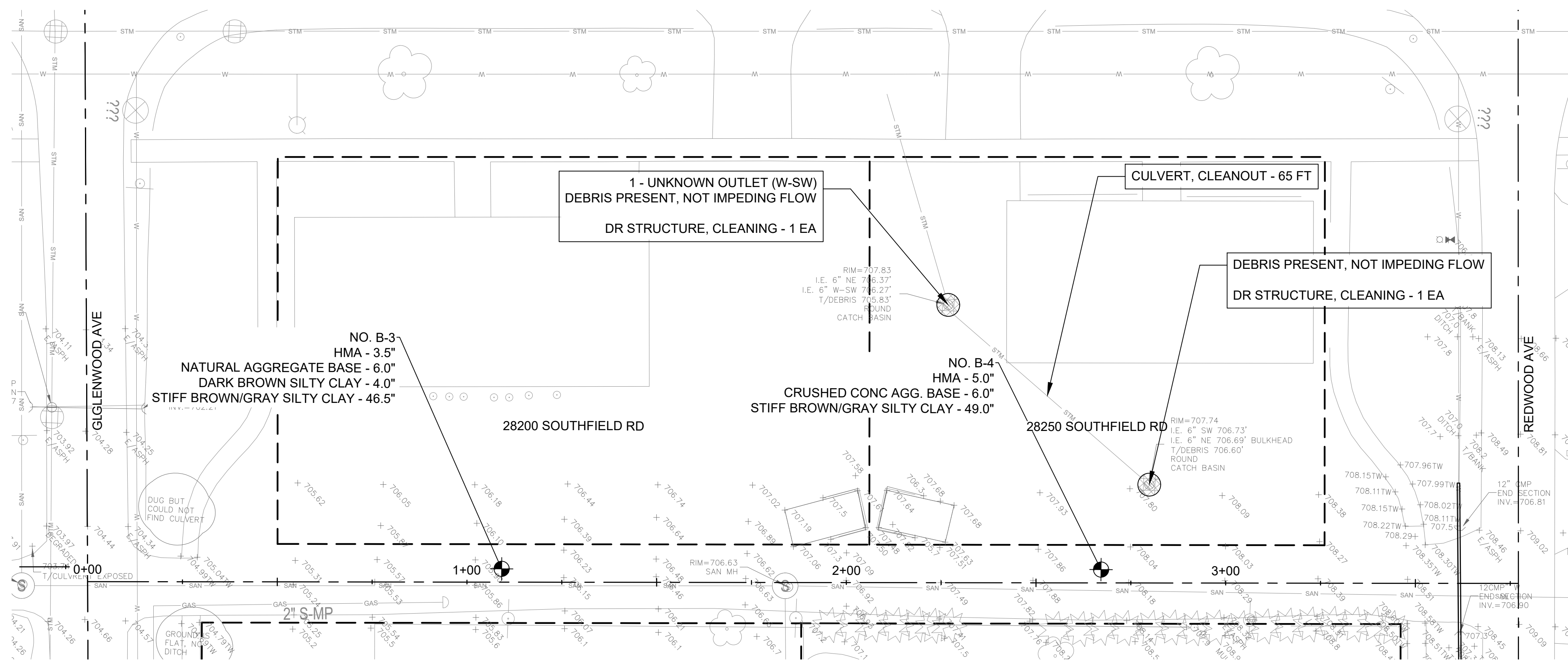
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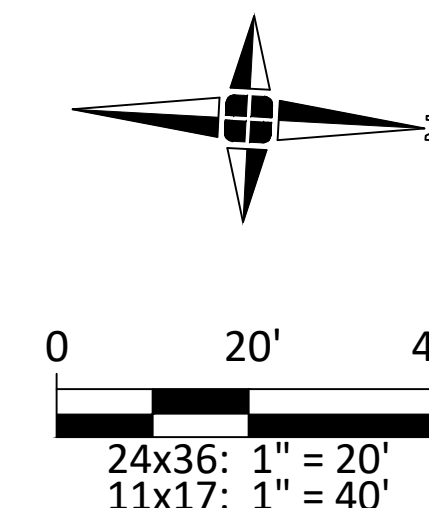
CALIFORNIA STRUCTURES

ESTIMATED QUANTITIES (THIS SHEET)
DR STRUCTURE, CLEANING
CULVERT, CLEANOUT

QTY UNIT
4 Ea
65 Ft



GLENWOOD STRUCTURES



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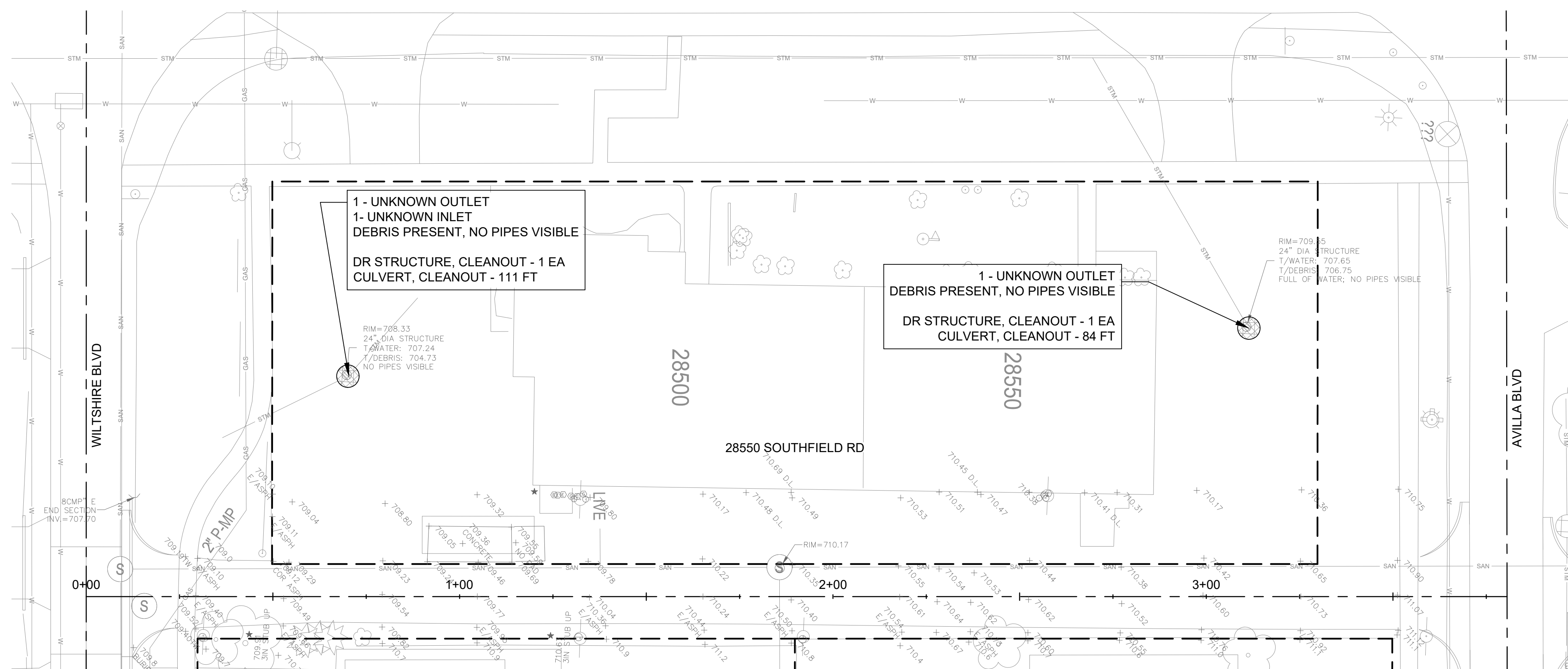
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WILTSHIRE STRUCTURES

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DR STRUCTURE, CLEANING
CULVERT, CLEANOUT

QTY UNIT
2 Ea
195 Ft

