

The map displays the project location in the City of St. Louis, Missouri. The project is situated on the east side of the city, between Steel St and Sturgis Rd, and between Scott Rd and Williams Rd. The project is highlighted by a cross-hatched rectangle. The map shows a grid of streets with the project location highlighted by a cross-hatched rectangle. The project is located on the east side of the city, between Steel St and Sturgis Rd, and between Scott Rd and Williams Rd. The project is situated on the east side of the city, between Steel St and Sturgis Rd, and between Scott Rd and Williams Rd.

SCALE: NTS

	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
	CLINTON	ST JOHNS	1	25

SHEET NUMBER	SHEET TITLE
1	TITLE
2	NOTE SHEET
3-4	TYPICAL CROSS SECTIONS
5	DETAIL SHEETS
6	SESC NOTES & DETAILS
7	DETOUR SHEET
8-21	PLAN AND PROFILE SHEETS
22-25	INTERSECTION AND RAMP GRADE DETAILS

SHOULDER REHAB: 2,616 FT (0.50 MILES)
SCOTT ROAD
STATION 19+50 to 45+66

CRUSH AND SHAPE: 1,766 FT (0.33 MILES)
SCOTT ROAD
STATION 46+56 to 64+22

SHARED USE PATH: 4,781 FT (0.91 MILES)
SCOTT ROAD
STATION 15+84 to 63+65

CONTRACT FOR: 0.50 MILES OF SHOULDER RECONSTRUCTION, 0.33 MILES OF ROAD CRUSH
AND SHAPE, 1,300 FEET OF STORM SEWER, AND 0.91 MILES OF CONCRETE
SHARED USE PATH ON SCOTT ROAD.



PREPARED UNDER SUPERVISION OF

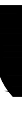
04/24/2020

DATE _____

C2AE
ORGANIZATION

648 MONROE AVENUE NW, SUITE 210 GRAND RAPIDS, MICHIGAN 49503
ADDRESS

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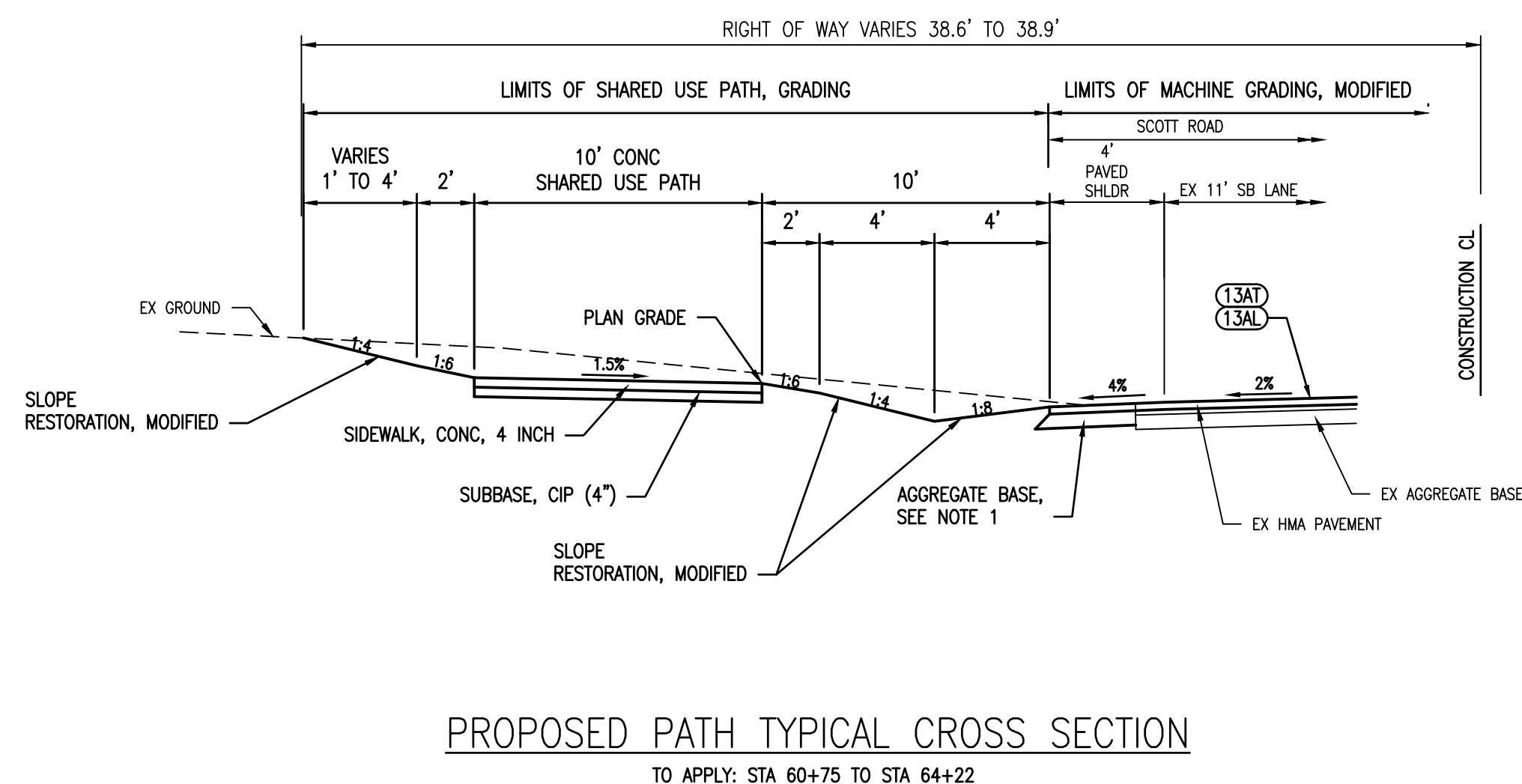
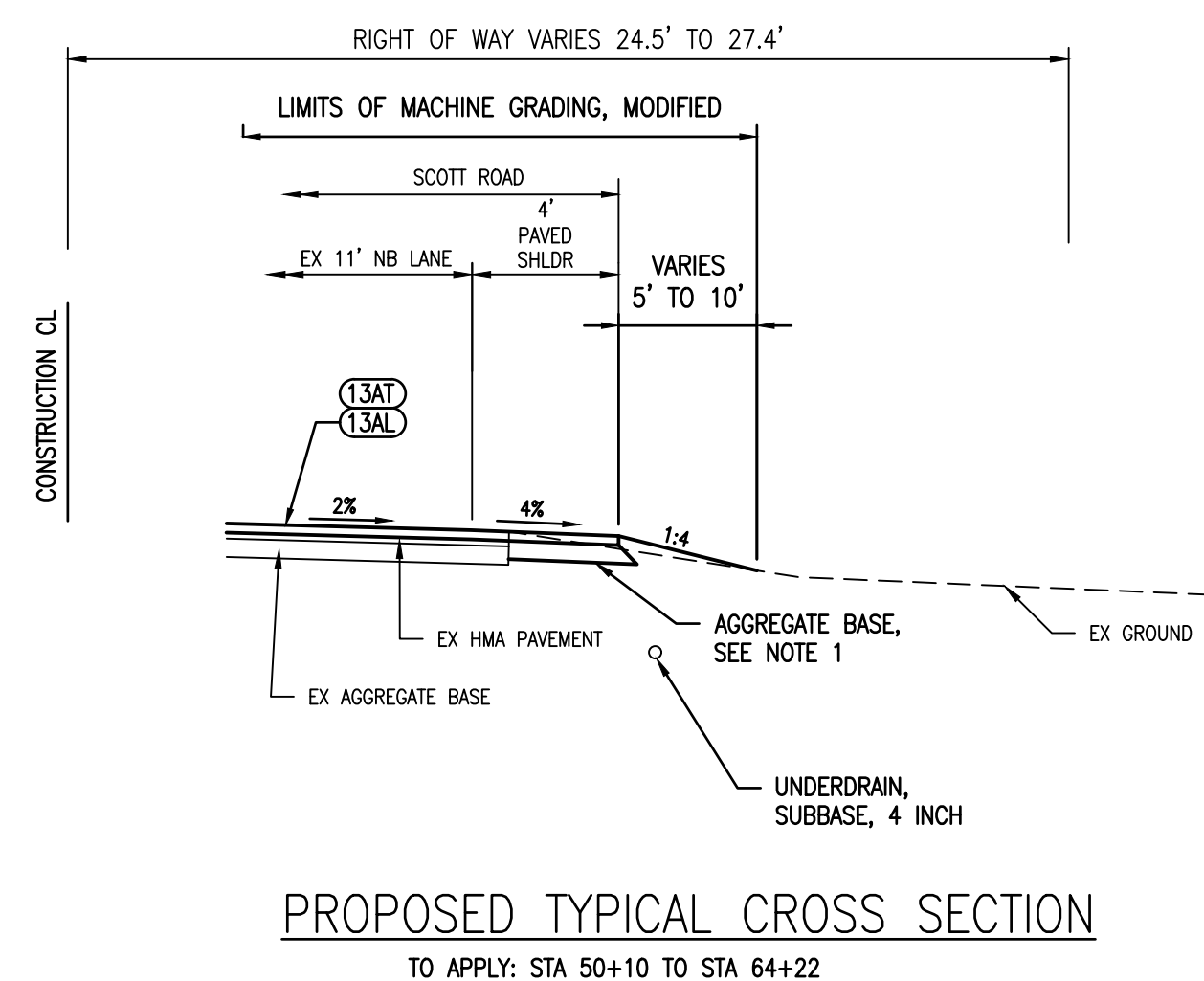
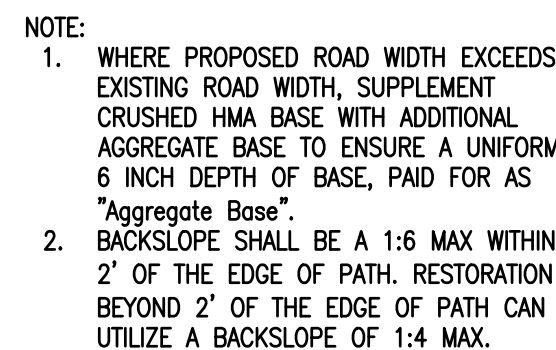
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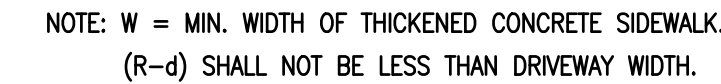
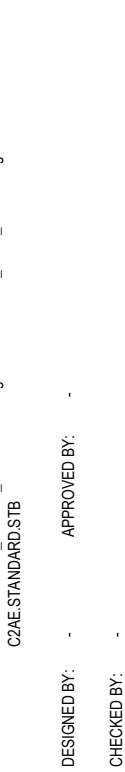
www.c2ae.com

CITY OF ST JOHNS
SCOTT ROAD IMPROVEMENTS
CLINTON COUNTY, MI

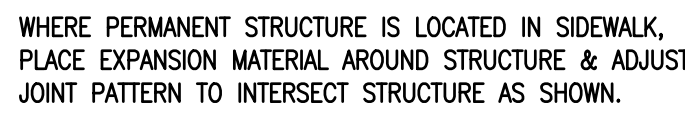
TYPICAL CROSS SECTIONS

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NOTES:
SIDEWALK TRANSVERSE SLOPE MAY VARY FROM
ZERO TO 1/2" PER FT. TO MEET SIDE CONDITIONS.
WHEN TRANSVERSE SLOPE IS LESS THAN 1/4" PER
FT. LONGITUDINAL DRAINAGE MUST BE PROVIDED.
IN SETTING GRADES FOR COMMERCIAL DRIVES THE
TYPES OF THE USING VEHICLES SHOULD BE CONSIDERED.



SIDEWALK DETAILS

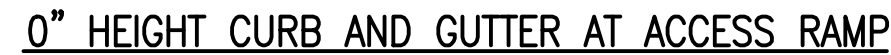


NO SCALE



STANDARD CATCH BASIN

NO SCALE



NOTE: THE CONTRACTOR SHALL RELOCATE MAIL BOXES AND GANG MAIL BOXES TO FACILITATE CONSTRUCTION. ALL MAIL BOXES THAT ARE RELOCATED DURING CONSTRUCTION SHALL BE SET IN THEIR ORIGINAL LONGITUDINAL LOCATION ACCORDING TO THE REQUIREMENTS AND SPECIFICATIONS OF THE UNITED STATES POSTAL SERVICE. THESE SPECIFICATIONS SHALL INCLUDE, BUT NOT BE LIMITED TO, THE CORRECT OFFSET FROM THE ROAD, AND THE HEIGHT AND TYPE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ASSURING THAT THE UNITED STATES POSTAL SERVICES CAN MAINTAIN NORMAL MAIL DELIVERY THROUGHOUT THE ENTIRE PROJECT DURATION.



POST, MAILBOX SETTING DETAIL

SCALE: NONE



NO SCALE

[illegible]

1. THE CONTRACTOR SHALL OBTAIN THE SOIL EROSION CONTROL PERMIT FROM THE OFFICE OF THE CLINTON COUNTY DRAIN COMMISSIONER.
2. ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE OFFICE OF THE CLINTON COUNTY DRAIN COMMISSIONER REQUIREMENTS AND PROJECT SPECIFICATIONS.
3. ANY EROSION OR SEDIMENT FROM WORK ON THIS SITE SHALL BE CONTAINED ON THE SITE AND NOT ALLOWED TO COLLECT ON ANY OFF SITE AREAS OR IN WATERWAYS; WATERWAYS INCLUDE BOTH NATURAL AND MAN-MADE OPEN DITCHES, STREAMS, STORM DRAINS, LAKES AND PONDS.
4. CONTRACTOR SHALL APPLY TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES AS REQUIRED AND AS DIRECTED ON THESE PLANS. HE SHALL REMOVE TEMPORARY MEASURES AS SOON AS PERMANENT STABILIZATION OF SLOPES, DITCHES AND OTHER EARTH CHANNELS HAVE BEEN ESTABLISHED. THE PERMIT WILL NOT BE CLOSED UNTIL THE TEMPORARY MEASURES HAVE BEEN REMOVED.
5. IF DEWATERING IS NECESSARY, CONTRACTOR SHALL SUBMIT A DEWATERING PLAN TO THE OFFICE OF THE CLINTON COUNTY DRAIN COMMISSIONER FOR APPROVAL.

1. THE CONTRACTOR SHALL PLACE THE TEMPORARY SILT FENCE AND CATCH BASIN SILT TRAPS PRIOR TO COMMENCING ANY GRADING OR REMOVAL OPERATIONS.
2. INSTALL FABRIC DRAP BETWEEN THE FRAME AND COVER OF ALL EXISTING CATCH BASINS WHICH MAY BE SUSCEPTIBLE TO SEDIMENT EROSION FROM THE PROPOSED CONSTRUCTION AS SHOWN IN THESE PLANS.
3. EXCAVATE FOR UTILITY CONSTRUCTION AND ROADWAY RECONSTRUCTION. DO NOT EXPOSE AREAS FAR IN ADVANCE OF THE PROPOSED CONSTRUCTION. ROUGHEN AND SCARIFY EXPOSED SURFACES TO REDUCE RUNOFF VELOCITY AND SEDIMENTATION. MAINTAIN VEGETATION WHENEVER POSSIBLE TO PROVIDE A NATURAL BUFFER.
4. AFTER COMPLETION OF THE PROPOSED UTILITIES, INSTALL INLET PROTECTION-FABRIC PROTECTION FOR ALL CATCH BASINS. INLET PROTECTION-FABRIC PROTECTION SHALL BE SILTSACKS, OR BASIN BAGS, OR EQUAL.
5. TOPSOIL, SEED, FERTILIZE & MULCH BLANKET ALL EXPOSED AREAS WITHIN 5 CALENDAR DAYS OF ACHIEVING FINAL GRADE TO PROTECT AND RESTORE PERMANENT VEGETATION.
6. APPLY WATER TO EXPOSED GROUND REGULARLY TO CONTROL AIRBORNE PARTICULATE MATTER.
7. THE CONTRACTOR SHALL MAINTAIN ALL TEMPORARY AND PERMANENT SOIL EROSION AND SEDIMENTATION CONTROL MEASURES THROUGHOUT THE ENTIRE CONSTRUCTION PROCESS AND UNTIL PERMANENT VEGETATION IS RE-ESTABLISHED IN ALL EXPOSED AREAS. REMOVE ACCUMULATED SEDIMENT FROM ALL DRAINAGE STRUCTURES.
8. THE SITE WILL BE PERIODICALLY INSPECTED BY THE STAFF OF THE CLINTON COUNTY DRAIN COMMISSIONER'S OFFICE. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE RULES AND REGULATIONS OF THAT OFFICE.
9. UPON FINAL APPROVED INSPECTION OF THE COMPLETED CONSTRUCTION BY ALL REVIEWING AGENCIES, THE CONTRACTOR SHALL REMOVE ALL TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROL MEASURES.

1. SEED SHALL BE MDOT THM SEED MIXTURE APPLIED AT 220# PER ACRE.
2. FERTILIZER SHALL BE MDOT CLASS A APPLIED AT 228 LBS OF CHEMICAL FERTILIZER NUTRIENT PER ACRE.
3. MULCH BLANKETS SHALL BE STRAW MULCH BLANKETS IN ACCORDANCE WITH MDOT SECTION 917 TURF AND LANDSCAPING MATERIALS.

SOIL EROSION CONTROL MEASURES TABLE		
KEY	DETAIL	NOTES
E5	DUST CONTROL	USE OF AN APPROVED TACKIFIER WITH DUST CONTROL IS REQUIRED.
E8	PERMANENT SEEDING	
E9	MULCH BLANKETS	PRIOR TO PLACEMENT OF THE MULCH BLANKETS, THE GROUND SHALL BE TREATED WITH SILT STOP OR OTHER APPROVED POLYMER SYSTEM.
S51	SILT FENCE	
S53	STABILIZED CONSTRUCTION ACCESS	FILTER FABRIC SHALL BE MDOT GEOTEXTILE SEPARATOR, WOVEN REQUIREMENTS (TABLE 910-1)
S58	INLET PROTECTION - FABRIC DROP	CATCH BASIN SILT GUARD SHALL BE "SILT SACK" AS MANUFACTURED BY ACF OR "BASIN BAG" AS SUPPLIED BY CONSTRUCTION SUPPLY INC., OR APPROVED EQUAL
SESC DETAILS UTILIZE STATE OF MICHIGAN, DEPARTMENT OF MANAGEMENT AND BUDGET, INFRASTRUCTURE SERVICES, DESIGN AND CONSTRUCTION DIVISION "SOIL EROSION AND SEDIMENTATION CONTROL GUIDEBOOK".		

1. THE CONTRACTOR SHALL MAINTAIN ALL TEMPORARY AND PERMANENT SOIL EROSION AND SEDIMENTATION CONTROL MEASURES THROUGHOUT THE ENTIRE CONSTRUCTION PROCESS AND UNTIL PERMANENT VEGETATION IS RE-ESTABLISHED IN ALL EXPOSED AREAS. REMOVE ACCUMULATED SEDIMENT FROM DRAINAGE STRUCTURES.
2. DAILY INSPECTIONS SHALL BE MADE BY THE CONTRACTOR TO DETERMINE EFFECTIVENESS OF EROSION AND SEDIMENTATION CONTROL MEASURES, AND ANY NECESSARY REPAIRS SHALL BE PERFORMED WITHOUT DELAY.
3. AFTER EACH RAINFALL EVENT, CONTRACTOR SHALL INSPECT AND MAINTAIN ALL SOIL EROSION CONTROL MEASURES AND CLEAN AND REPLACE CATCH BASIN FILTERS (INLET PROTECTION FABRIC DROP).
4. DUST CONTROL WILL BE EXERCISED AT ALL TIMES WITHIN THE PROJECT BY THE CONTRACTORS. SPRINKLING TANK TRUCKS SHALL BE AVAILABLE AT ALL TIMES TO BE USED ON HAUL ROUTES OR OTHER PLACES WHERE DUST BECOMES A PROBLEM.
5. ALL MUD, DIRT AND DEBRIS TRACKED ONTO EXISTING ROADS SHALL BE PROMPTLY REMOVED BY THE CONTRACTOR NO LESS THAN ON A DAILY BASIS. ALL MUD, DIRT AND DEBRIS TRACKED OR SPILLED ONTO PAVED SURFACES WITHIN THIS SITE SHALL BE PROMPTLY REMOVED BY THE CONTRACTOR.

1. ALL SOIL EROSION AND SEDIMENT CONTROLS SHALL BE INSPECTED AND MAINTAINED ON A DAILY BASIS AND IMMEDIATELY FOLLOWING EVERY SIGNIFICANT RAINFALL EVENT.
2. ALL EXCESS SPOILS ARE TO BE REMOVED FROM THE SITE. OTHERWISE, STOCKPILES MUST BE PROVIDED WITH TEMPORARY AND PERMANENT STABILIZATION MEASURES.
3. EXCESS DIRT IS NOT TO BE PLACED ON ANY AREAS ON OR ADJACENT TO THE SITE WHERE PLANT DOES NOT SHOW THE AREA BEING DISTURBED.
4. SILT FENCING IS REQUIRED ALONG ALL DOWNSTREAM EDGES OF THE GRADING LIMITS AND MUST REMAIN IN PLACE UNTIL VEGETATION IS UNIFORMLY RE-ESTABLISHED. THE SILT FENCE MUST BE TOED IN A MINIMUM OF 6 INCHES ALONG ITS BASE.
5. ALL SOIL EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY EARTH MOVING OPERATIONS, AND SHALL BE MAINTAINED UNTIL VEGETATION IS UNIFORMLY RE-ESTABLISHED AND THE SITE IS PERMANENTLY STABILIZED.
6. NO SEDIMENT SHALL BE TRACKED ONTO THE ADJACENT PUBLIC STREET AND IF IT DOES OCCUR, SHALL BE CLEANED DAILY.

- WHEN
 - ON CONSTRUCTION SITES DURING PERIODS OF LOW PRECIPITATION, LOW HUMIDITY, AND HIGH TEMPERATURE OR HIGH WINDS.
- WHY
 - TO REDUCE DUST AND SEDIMENTATION FROM WIND AND CONSTRUCTION ACTIVITIES.
- WHERE
 - USE ON UNPAVED ROADWAYS, CONSTRUCTION SITES WITH VEHICLE TRAFFIC, SOIL STOCKPILE AREAS, AND GENERAL AREAS WITH UNSTABILIZED, OR FINE SOILS.
- HOW
 - 1. DUST CONTROL APPLICATIONS CAN INCLUDE WATERING, CHEMICAL DUST SUPPRESSION, GRAVEL OR ASPHALT SURFACING, TEMPORARY AGGREGATE COVER, AND HAUL TRUCK COVERS.
 - 2. MINUTE LENGTH OF THE VULNERABLE AREAS ARE EXPOSED ON CONSTRUCTION SITE.
 - 3. IDENTIFY AND STABILIZE KEY ACCESS POINTS PRIOR TO INITIATING CONSTRUCTION.
 - 4. QUICKLY STABILIZE EXPOSED SOIL BY VEGETATION, MULCH, SOIL EROSION CONTROL BLANKETS, SPRAY-ON ADHESIVES, SPRINKLING, OR STONE LAYERING TO MINIMIZE AREAS IN NEED OF DUST CONTROL.
 - 5. FOLLOW MANUFACTURERS INSTRUCTIONS REGARDING APPLICATION OF ANY DUST PALLIATIVE. PAY PARTICULAR ATTENTION TO MIXING DETAILS.
 - 6. APPLY DUST SUPPRESSANT TO SURFACES USING A PRESSURE TYPE WATER DISTRIBUTOR TRUCK EQUIPPED WITH A SPRAY SYSTEM.
 - 7. THE NUMBER OF APPLICATIONS TO BE DETERMINED BY SITE ENGINEER.
 - 8. IMMEDIATELY CLEAN-UP SEDIMENT TRACKED ONTO PAVED ROADS.
 - 9. LIMIT VEHICLE TRAFFIC TO 15 MILES PER HOUR.
 - 10. UTILIZE AGGREGATE COVER ON ACCESS, PARKING, AND PAVED ROADS.
 - 11. KEEP CONSTRUCTION TRAFFIC DIRECTED TO STABILIZED SITE ROADWAYS WHEN POSSIBLE.
- MAINTENANCE
 - FREQUENT, EVEN DAILY APPLICATION MAY BE REQUIRED TO INCREASE EFFECTIVENESS.
 - DO NOT OVERWATER, AS OVERWATERING MAY CAUSE EROSION.
 - OIL SHOULD NOT BE USED FOR DUST CONTROL, AS IT MAY ENTER A DRAINAGEWAY THROUGH RUNOFF OR SEEPING INTO THE SOIL.

- TO CONTINUE ITS EFFECTIVENESS, DUST CONTROL APPLICATION NEEDS TO BE APPLIED ON A REGULAR SCHEDULE.
- APPLYING TOO MUCH WATER TO SURFACE MAY CAUSE EROSION.
- SOME TYPES OF DUST SUPPRESSANTS MAY MAKE SOIL WATER REPELLANT, INCREASING RUNOFF.

NOTES:

- 1 PLACE MULCH BLANKET PARALLEL TO FLOW AND ANCHOR SECURELY.
- 2 WHEN BLANKETS ARE USED IN FLOWING DITCH, BLANKETS SHOULD NOT OVERLAP IN DITCH CENTER PARALLEL TO FLOW.
- 3 STAPLES INSTALLED/SECURED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
- 4 WHERE POSSIBLE, CONSTRUCT WITH BIODEGRADABLE MATERIAL.

- TO FINALIZE STABILIZATION OF TEMPORARY SEEDING AREAS OR WHEN AN AREA NEEDS PERMANENT STABILIZATION FOLLOWING COMPLETION OF CONSTRUCTION. ALSO USED WHEN CORRECTIVE ESTABLISHMENT CAN CORRECT EXISTING SOIL EROSION OR SEDIMENTATION PROBLEM.
- WITHIN 5 DAYS OF FINAL GRADE.

WHY

- TO STABILIZE SOIL AND PREVENT OR REDUCE SOIL EROSION/SEDIMENTATION PROBLEMS FROM DEVELOPING.

WHERE

- USED ON CONSTRUCTION AND EARTH CHANGE SITES WHICH REQUIRE PERMANENT VEGETATIVE STABILIZATION.

HOW

1. REVIEW SESC PLAN AND CONSTRUCTION PHASING TO IDENTIFY AREAS IN NEED OF PERMANENT VEGETATIVE STABILIZATION.
2. SELECT PERENNIAL GRASS AND GROUND COVER FOR PERMANENT COVER.
3. SEED MIXES VARY. HOWEVER, THEY SHOULD CONTAIN NATIVE SPECIES.
4. SEED MIXES SHOULD BE SELECTED THROUGH CONSULTATION WITH A CERTIFIED SEED PROVIDER AND WITH CONSIDERATION OF SOIL TYPE, LIGHT, MOISTURE, USE APPLICATIONS, AND NATIVE SPECIES CONTENT.
5. SOIL TESTS SHOULD BE PERFORMED TO DETERMINE THE NUTRIENT AND PH LEVELS IN THE SOIL. THE P H MAY NEED TO BE ADJUSTED TO BETWEEN 6.5 AND 7.0.
6. PREPARE A 3-4" DEEP SEEDBED, WITH THE TOP 3-4" CONSISTING OF TOPSOIL.
7. SLOPES STEEPER THAN 1:3 SHOULD BE ROUGHENED.
8. APPLY SEED AS SOON AS POSSIBLE AFTER SEEDBED PREPARATION. SEED MAY BE BROADCAST BY HAND, HYDROSEEDING, OR BY USING MECHANICAL DRILLS.
9. MULCH IMMEDIATELY AFTER SEEDING.
10. DORMANT SEED MIXES ARE FOR USE AFTER THE GROWING SEASON, SINCE WHICH LIES DORMANT IN THE WINTER AND BEGINS GROWING AS SOON AS SITE CONDITIONS BECOME FAVORABLE.
11. PROTECT SEEDD AREAS FROM PEDESTRIAN OR VEHICULAR TRAFFIC.
12. DIVERT CONCENTRATED FLOWS AWAY FROM THE SEEDD AREA UNTIL VEGETATION IS ESTABLISHED.

MAINTENANCE

- INSPECT WEEKLY AND WITHIN 24 HOURS FOLLOWING EACH RAIN EVENT IN THE FIRST FEW MONTHS FOLLOWING INSTALLATION TO BE SURE SEED HAS GERMINATED AND PERMANENT VEGETATIVE COVER IS BEING ESTABLISHED.
- ADD SUPPLEMENTAL SEED AS NECESSARY.

LIMITATIONS

- SEEDS NEED ADEQUATE TIME TO ESTABLISH.
- MAY NOT BE APPROPRIATE IN AREAS WITH FREQUENT TRAFFIC.
- SEEDD AREAS MAY REQUIRE IRRIGATION DURING DRY PERIODS.
- SEEDING SUCCESS IS SITE SPECIFIC, CONSIDER MULCHING OR SODDING WHEN NECESSARY.

	<u>Zone 1</u> Lower Peninsula (South of U.S. 10)	<u>Zone 2</u> Lower Peninsula (North of U.S. 10)	<u>Zone 3</u> Upper Peninsula
<u>Seeding Dates</u> (with Irrigation or Mulch)	4/1 – 8/1	5/1 – 9/20	5/1 – 9/10
<u>Seeding Dates</u> (w/o Irrigation or Mulch)	4/1 – 5/20 or 8/10 – 10/1	5/1 – 6/10 or 8/1 – 9/20	5/1 – 6/15 or 8/1 – 9/20
<u>Dormant Seeding Dates*</u>	11/1 – Freeze	10/25 – Freeze	10/25 – Freeze

- * DORMANT SEEDING IS FOR USE IN THE LATE FALL AFTER THE SOIL TEMPERATURE REMAINS CONSISTENTLY BELOW 50° F. PRIOR TO THE GROUND FREEZING. THIS PRACTICE IS APPROPRIATE IF CONSTRUCTION ON A SITE IS COMPLETED IN THE FALL BUT THE SOIL WAS NOT PLANTED PRIOR TO RECOMMENDED SEEDING DATES. NO SEED GERMINATION WILL TAKE PLACE UNTIL SPRING. A COOL SEASONED ANNUAL GRASS MAY BE ADDED IN AN ATTEMPT TO HAVE SOME FALL GROWTH.
- * MULCH BLANKETS MUST BE USED WITH DORMANT SEED.
- * DO NOT SEED WHEN THE GROUND IS FROZEN OR SNOW COVERED.
- * DO NOT USE A DORMANT SEED MIX ON GRASSED WATERWAYS.

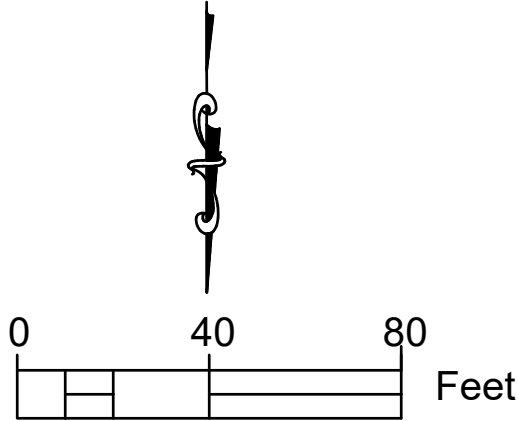
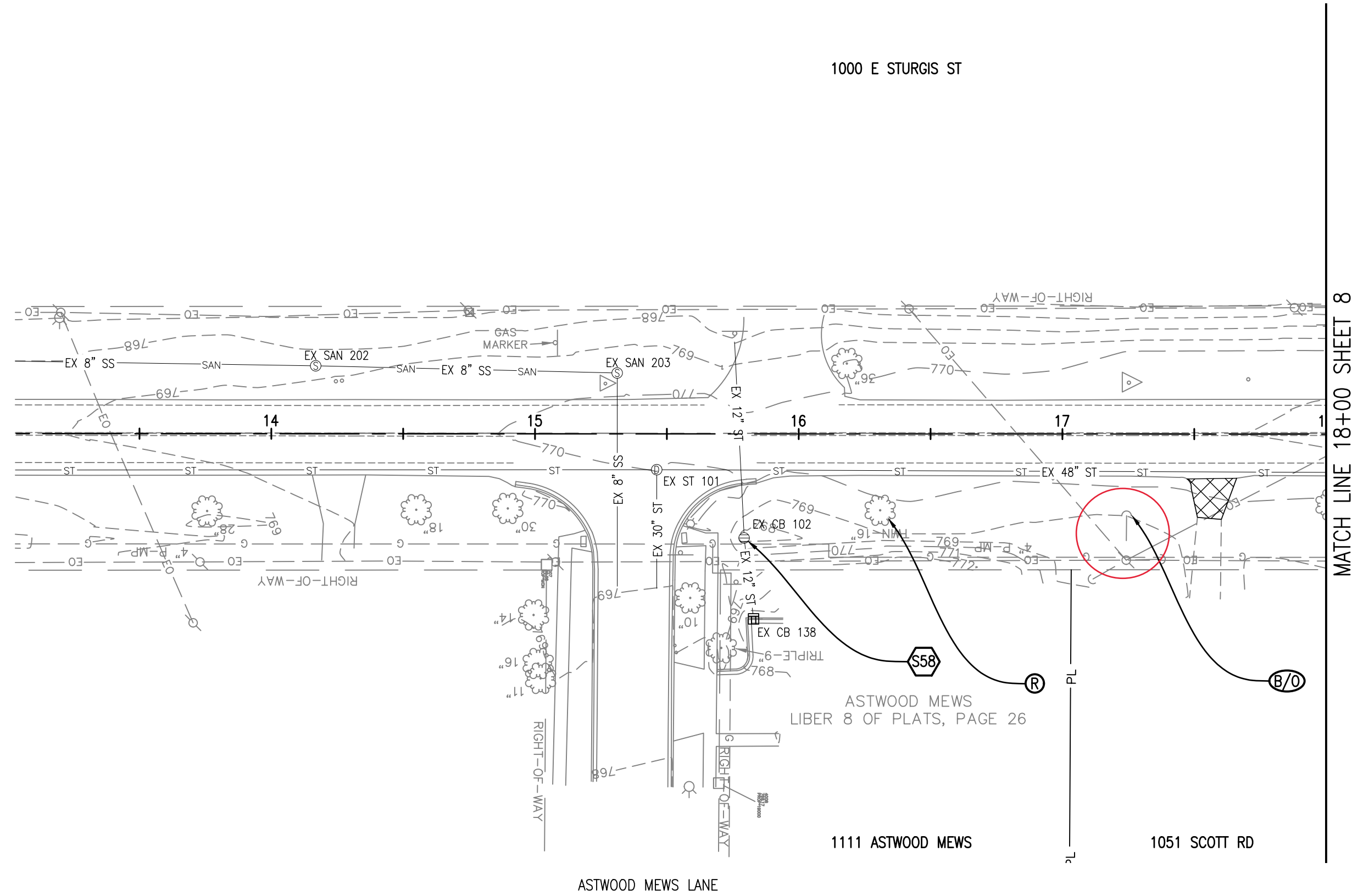
MAINTENANCE

- DROP INLET FILTERS SHOULD BE INSPECTED ROUTINELY AND AFTER EACH MAJOR RAIN EVENT.
- DAMAGED FILTER BAGS SHOULD BE REPLACED.
- CLEAN AND/OR REPLACE FILTER BAG WHEN 1/2 FULL.
- REPLACE CLOGGED FABRIC IMMEDIATELY.
- IF NEEDED, INITIATE REPAIRS IMMEDIATELY UPON INSPECTION.
- REMOVE ENTIRE PROTECTIVE MECHANISM WHEN UPGRADIENT AREAS ARE STABILIZED AND STREETS HAVE BEEN SWEEPED.

1. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.
2. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY. 9" MAXIMUM RECOMMENDED STORAGE HEIGHT.
3. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.

- INSPECT FREQUENTLY AND IMMEDIATELY AFTER EACH STORM EVENT. CHECK SEVERAL TIMES DURING PROLONGED STORM EVENTS. IF NECESSARY, REPAIR IMMEDIATELY.
- IF THE SEDIMENT HAS REACHED 1/3 THE HEIGHT OF THE FENCE, THE SOIL SHOULD BE REMOVED AND DISPOSED OF IN A STABLE UPLAND SITE.
- THE FENCE SHOULD BE RE-INSTALLED IF WATER IS SEEPING UNDERNEATH IT OR IF THE FENCE HAS BECOME INEFFECTIVE.
- SILT FENCE SHOULD BE REMOVED ONCE VEGETATION IS ESTABLISHED AND UP-SLOPE AREA HAS STABILIZED.

SCOTT ROAD PLAN SHEET STA
10+00 TO 18+00



203619 PARTICIPATING REMOVAL QUANTITIES THIS SHEET

- 23 Syd Pavt, Rem
- 1 Ea Stump, Rem, 6 inch to 18 inch

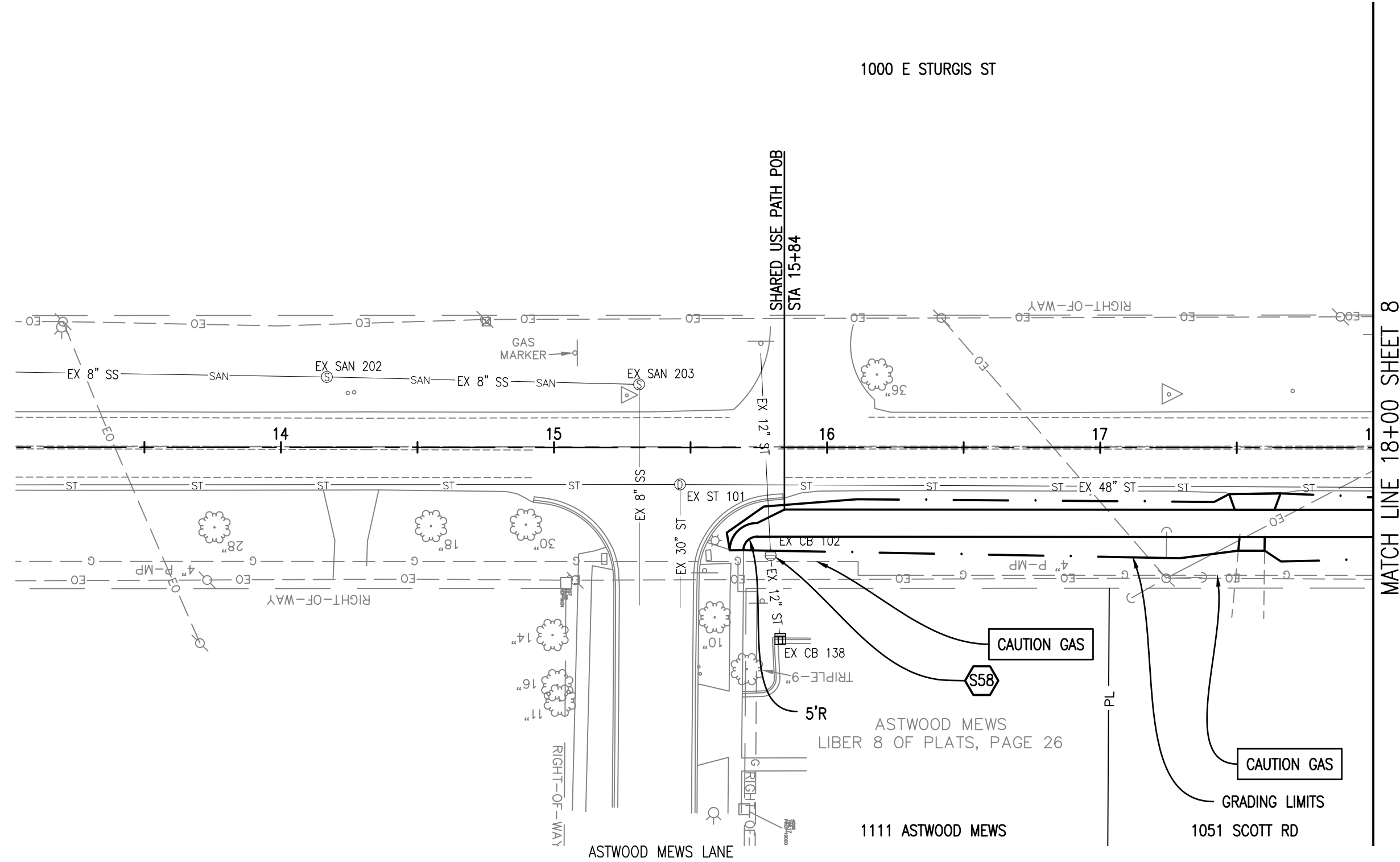
- REMOVE EXISTING BITUMINOUS SURFACE SAWCUT AT REMOVAL LIMITS
- REMOVE EXISTING CONCRETE SIDEWALK

EROSION CONTROL ITEM. SEE SHEET 6 FOR DETAIL.

THE AREA WITHIN THE EARTH DISTURBANCE LIMITS IS APPROXIMATELY 4.87 ACRES.

203619 PARTICIPATING QUANTITIES THIS SHEET

- 1 Ea Erosion Control, Inlet Protection, Fabric Drop
- 230 Ft Shared Use Path, Grading
- 30 Cyd Subbase, CIP
- 2,115 Sft Sidewalk, Conc, 4 inch
- 150 Sft Sidewalk, Conc, 6 inch
- 250 Syd Slope Restoration, Modified
- 22 Syd Approach, CI 1, 6 inch
- 3 Ton HMA Approach



STATION	Driveway Opening		DRIVEWAY APPROACHES				
	WIDTH AT MATCH	WIDTH AT EOM	DIST. FROM EX. EOM TO MATCH	DRIVE APPROACH SLOPE	Approach, CI 1, 6 inch	HMA, Approach (4 inch)	Driveway, Nonrein Conc, 6 inch
17+57, RT	14.5	18.8	25.8	8.0,1.5,2.5	Syd	2.5	150
TOTALS					22.3	2.5	150

DRIVEWAY TABLE FOR INFORMATION ONLY

PROPOSED LEGEND

- ADJ ADJUST
- U UTILITY CO. TO RELOCATE
- REL RELOCATE
- R REMOVE
- BH BULKHEAD
- AB ABANDON
- B/O RELOCATE BY OTHERS



EX GROUND AT LEFT EDGE OF PAVEMENT

EX GROUND AT CENTERLINE OF ROAD

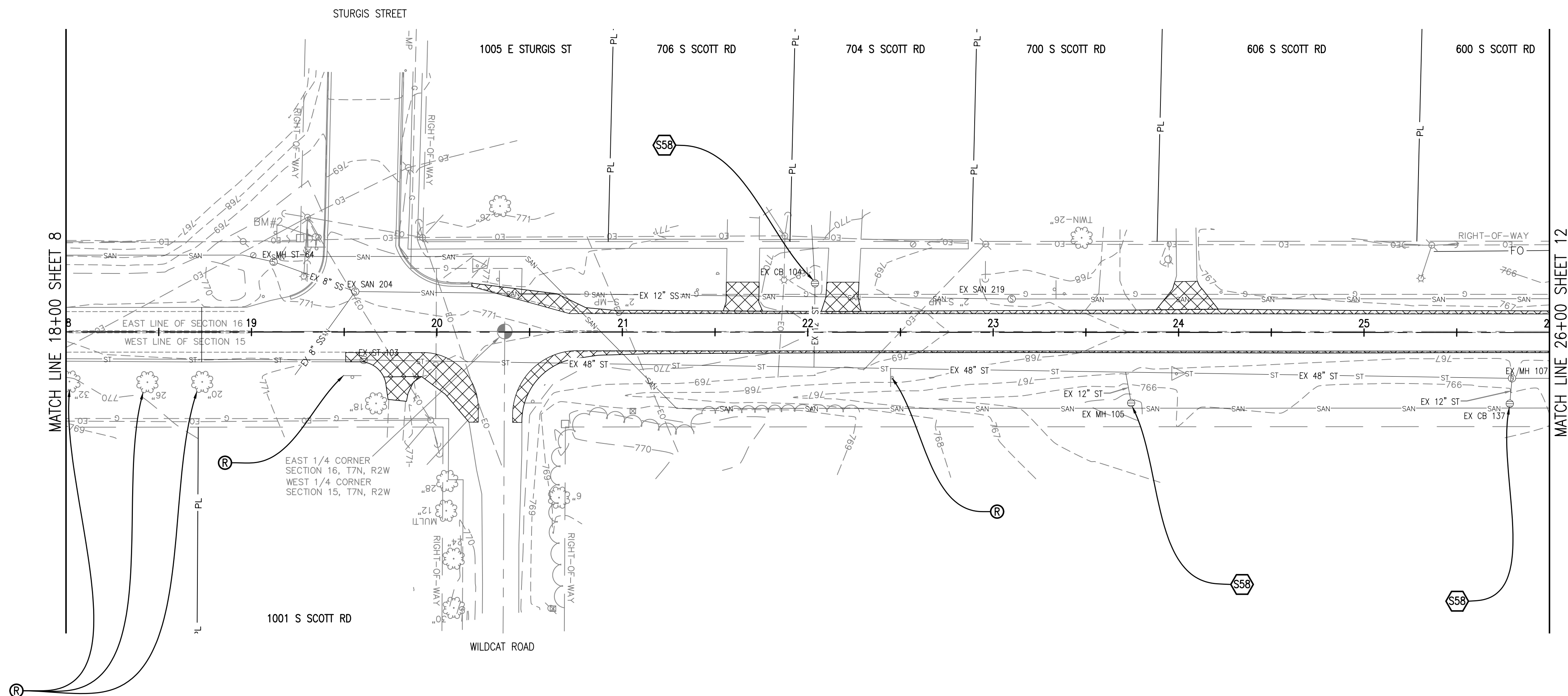
EXISTING	PROPOSED
999.9	999.99

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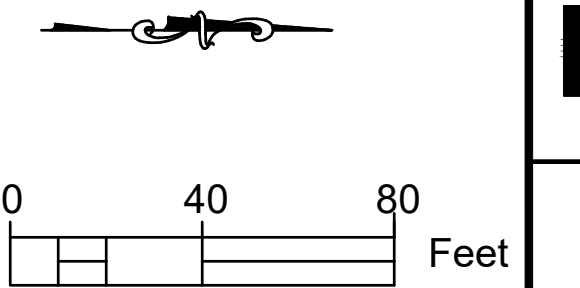
CITY OF ST JOHNS
SCOTT ROAD IMPROVEMENTS
CLINTON COUNTY, MI



SCOTT ROAD PLAN SHEET STA
18+00 TO 26+00



BENCHMARKS
B.M. #2 - SOUTHWEST FLANGE BOLT ON HYDRANT ABOVE
"S" IN WATEROUS ON SOUTH SIDE OF STURGIS STREET &
WEST SIDE OF SCOTT ROAD
ELEV. 773.29' NAVD 88



203619 PARTICIPATING REMOVAL QUANTITIES THIS SHEET

- | | | |
|---|----|--------------------------------|
| 2 | Ea | Sign, Type III, Rem |
| 3 | Ea | Stump, Rem, 19 inch to 26 inch |

208128 PARTICIPATING REMOVAL QUANTITIES THIS SHEET

- | | | |
|-----|-----|------------------|
| 125 | Syd | Pavt, Rem |
| 355 | Syd | HMA Surface, Rem |

	REMOVE EXISTING BITUMINOUS SURFACE SAWCUT AT REMOVAL LIMITS
	REMOVE EXISTING CONCRETE SIDEWALK

S58 EROSION CONTROL ITEM. SEE SHEET 6 FOR DETAIL.

THE AREA WITHIN THE EARTH DISTURBANCE LIMITS IS APPROXIMATELY 4.87 ACRES.

203619 PARTICIPATING QUANTITIES THIS SHEET

- | | | |
|-------|-----|---------------------------------------|
| 765 | Ft | Shared Use Path, Grading |
| 90 | Yd | Subbase, CIP |
| 7,235 | Sft | Sidewalk, Conc, 4 inch |
| 150 | Sft | Sidewalk, Conc, 6 inch |
| 200 | Sft | Sidewalk Ramp, Conc, 6 inch |
| 20 | Ft | Detectable Warning Surface |
| 17 | Syd | Approach, CI 1, 6 inch |
| 4 | Ton | HMA Approach |
| 2 | Ea | Sign, Type III, Erect, Salv |
| 48 | Ft | Post, Steel, 3 lb |
| 1,000 | Syd | Slope Restoration, Modified |
| 1 | Ea | Dr Structure Cover, Adj, Case 2 |
| 1 | Ea | Sanitary Structure Cover, Adj, Case 2 |

208128 PARTICIPATING QUANTITIES THIS SHEET

- | | | |
|-------|-----|--|
| 3 | £a | Erosion Control, Inlet Protection, Fabric Drop |
| 5.8 | Sta | Machine Grading, Modified |
| 700 | Syd | Aggregate Base, 8 inch |
| 240 | Cyd | Subbase, CIP |
| 120 | Ton | HMA, 4E1 |
| 1,345 | Ft | Underdrain, Subbase, 4 inch |
| 40 | Syd | Approach, C1, 6 inch |
| 9 | Ton | HMA Approach |
| 56 | Syd | Driveway, Nonrein Conc, 6 inch |
| 4 | £a | Post, Mailbox |
| 1,000 | Syd | Slope Restoration, Modified |
| 1 | £a | R Structure Cover, Adj, Case 2 |
| 138 | Ft | Pavt Mrkg, Waterborne, 4 inch, Yellow |
| 1,107 | Ft | Pavt Mrkg, Waterborne, 6 inch, White |

STATION	Driveway Opening		DRIVEWAY APPROACHES						
	WIDTH AT MATCH	WIDTH AT EOM	DIST. FROM EX. EOM TO MATCH	DRIVE APPROACH SLOPE	Approach, Cl. 1, 6 inch	HMA Approach (4 inch)	Driveway, Nonconc. 6 inch	Sidewalk, Conc. 6 inch	
	Ft	Ft	Ft	%	Syd	Ton	Syd	Sft	
19+79, RT	9.0	15.5	22.5	1.2,1.5	17.0	4	—	150	
21+66, LT	17.7	20.5	18.6	0.5	—	—	30.9	—	
22+19, LT	16.1	20.2	15.6	0.5	—	—	25.3	—	
23+63, LT	10.9	16.1	15.2	0.9	18.3	4	—	—	
24+04, LT	12.2	20.0	15.2	-0.7	21.3	5	—	—	
TOTALS					56.6	13	56.2	150	

DRIVEWAY TABLE FOR INFORMATION ONLY

PROPOSED LEGEND

- | | | |
|-------|-------------------------|----|
| (ADJ) | ADJUST | PR |
| (U) | UTILITY CO. TO RELOCATE | DA |
| (REL) | RELOCATE | |
| (R) | REMOVE | |
| (BH) | BULKHEAD | |
| (AB) | ABANDON | |
| (B/O) | RELOCATE BY OTHERS | |

DJ. #: 190139

TE: 04/24/2020

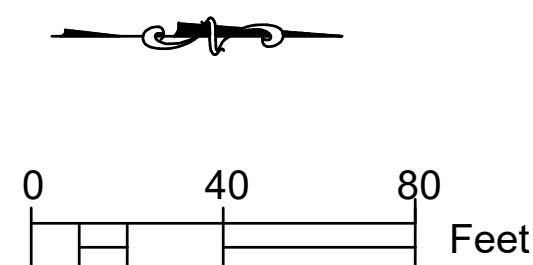
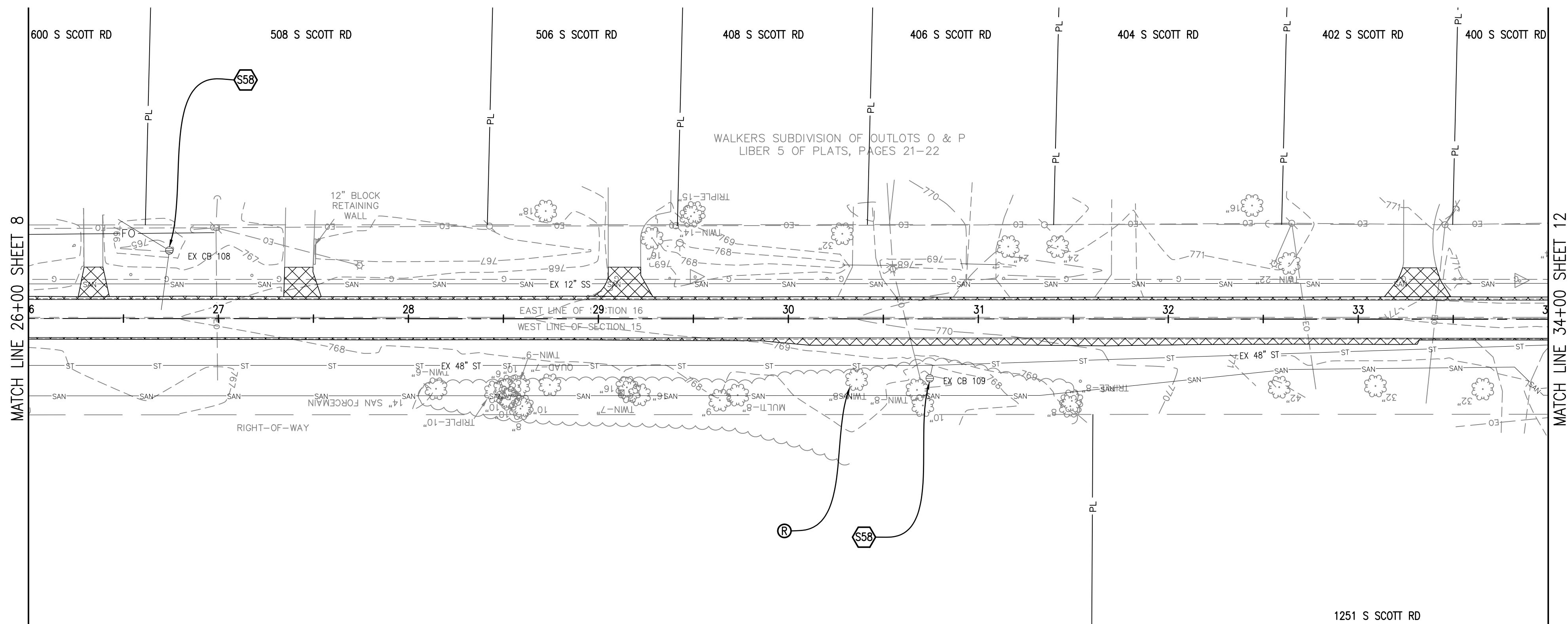
13c MID



EXISTING	PROPOSED
999.9	999.99

SCOTT ROAD PROFILE SHEET STA 18+00 TO 26+00	CITY OF ST JOHNS SCOTT ROAD IMPROVEMENTS CLINTON COUNTY, MI
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SCOTT ROAD PLAN SHEET STA
26+00 TO 34+00



203619 PARTICIPATING REMOVAL QUANTITIES THIS SHEET

1	Ea	Stump, Rem, 6 inch to 18 inch
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208128 PARTICIPATING REMOVAL QUANTITIES THIS SHEET

132	Syd	Pavt, Rem
336	Syd	HMA Surface, Rem

 REMOVE EXISTING BITUMINOUS SURFACE SAWCUT AT REMOVAL LIMITS

 REMOVE EXISTING CONCRETE SIDEWALK

S58 EROSION CONTROL ITEM. SEE SHEET 6 FOR DETAIL.

THE AREA WITHIN THE EARTH DISTURBANCE LIMITS IS APPROXIMATELY 4.87 ACRES.

203619 PARTICIPATING QUANTITIES THIS SHEET

800	Ft	Shared Use Path, Grading
1	Ea	Dr Structure, 48 inch dia
1	Ea	Dr Structure, Cover, Type B
1	Ea	Dr Structure Cover, Type E
10	Ft	Sewer, Cl I, 12 inch, Tr Det B
1	Ea	Dr Structure, Tap, 12 inch
100	Cyd	Subbase, CIP
7,700	Sft	Sidewalk, Conc, 4 inch
300	Sft	Sidewalk, Conc, 6 inch
16	Syd	Approach, Cl I, 6 inch
4	Ton	HMA Approach
1,500	Syd	Slope Restoration, Modified
1	Ea	Dr Structure Cover, Adj, Case 2

208128 PARTICIPATING QUANTITIES THIS SHEET

8	Ea	Erosion Control, Inlet Protection, Fabric Drop
8	Sta	Machine Grading, Modified
900	Syd	Aggregate Base, 8 inch
300	Cyd	Subbase, CIP
150	Ton	HMA, 4E1
1,600	Ft	Underdrain, Subbase, 4 inch
124	Syd	Approach, Cl I, 6 inch
27	Ton	HMA Approach
37	Syd	Driveway, Nonreinfc Conc, 6 inch
8	Ea	Post, Mailbox
1,000	Syd	Slope Restoration, Modified
200	Ft	Pavt Mrkg, Waterborne, 4 inch, Yellow
1,600	Ft	Pavt Mrkg, Waterborne, 6 inch, White

STATION	Driveway Opening		DRIVEWAY APPROACHES						
	WIDTH AT MATCH	WIDTH AT EOM	DIST. FROM EX. EOM TO MATCH	DRIVE APPROACH SLOPE	Approach, 0' 1, 6' inch	HMA Approach (4 inch)	Driveway, Nonreinforced, Conc, 6 inch	Sidewalk, Conc, 6 inch	
									Ft
26+34, LT	9.1	14.5	15.6	-1.3	-	-	15.4	-	
27+42, LT	14.9	18.4	15.5	-0.7	-	-	21.1	-	
29+14, LT	17.1	20.0	15.4	1.4	23.2	5	-	-	
30+40, LT	12.6	19.9	10.4	1.0	26.9	6	-	-	
31+02, LT	15.0	18.2	17.7	1.5	24.3	5	-	-	
31+77, LT	13.1	16.4	17.9	1.9	22.3	5	-	-	
33+32, LT	17.4	23.3	15.2	0.4	27.4	6	-	-	
33+83, RT	26.5	29.5	19.0	1.3,2.0	16.2	4	-	300	
TOTALS					140.3	31	36.5	300	

DRIVEWAY TABLE FOR INFORMATION ONLY

PROPOSED LEGEND

ADJ	ADJUST
U	UTILITY CO. TO RELOCATE
REL	RELOCATE
R	REMOVE
BH	BULKHEAD
AB	ABANDON
B/O	RELOCATE BY OTHERS

REVISIONS

REV	DESCRIPTION	DATE
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(c)

PROJ. #: 190139

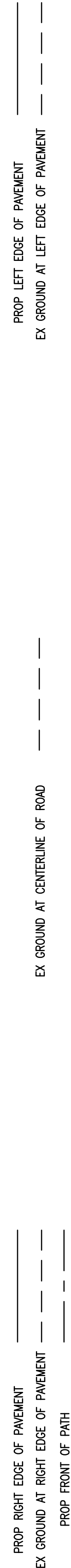
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SHEET

10. *Journal of the American Medical Association*, 2000; 283: 2689-2696.

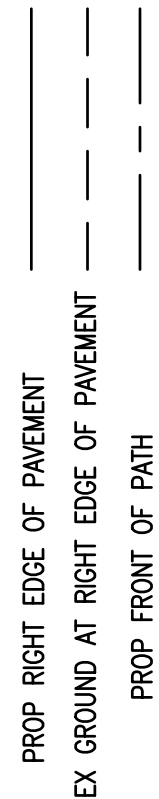
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12



EXISTING	PROPOSED
999.9	999.99

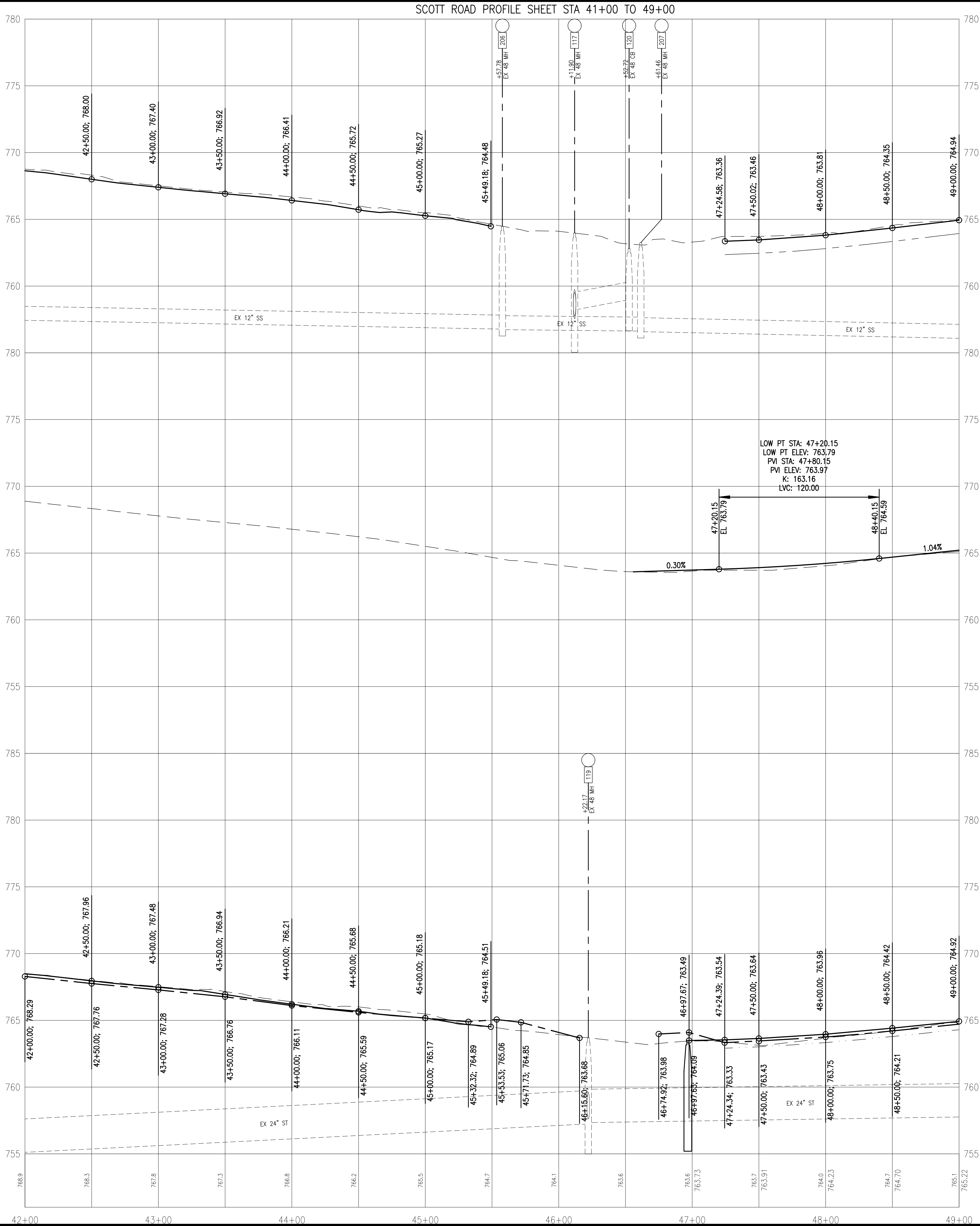
CITY OF ST JOHNS
SCOTT ROAD IMPROVEMENTS
CLINTON COUNTY, MI



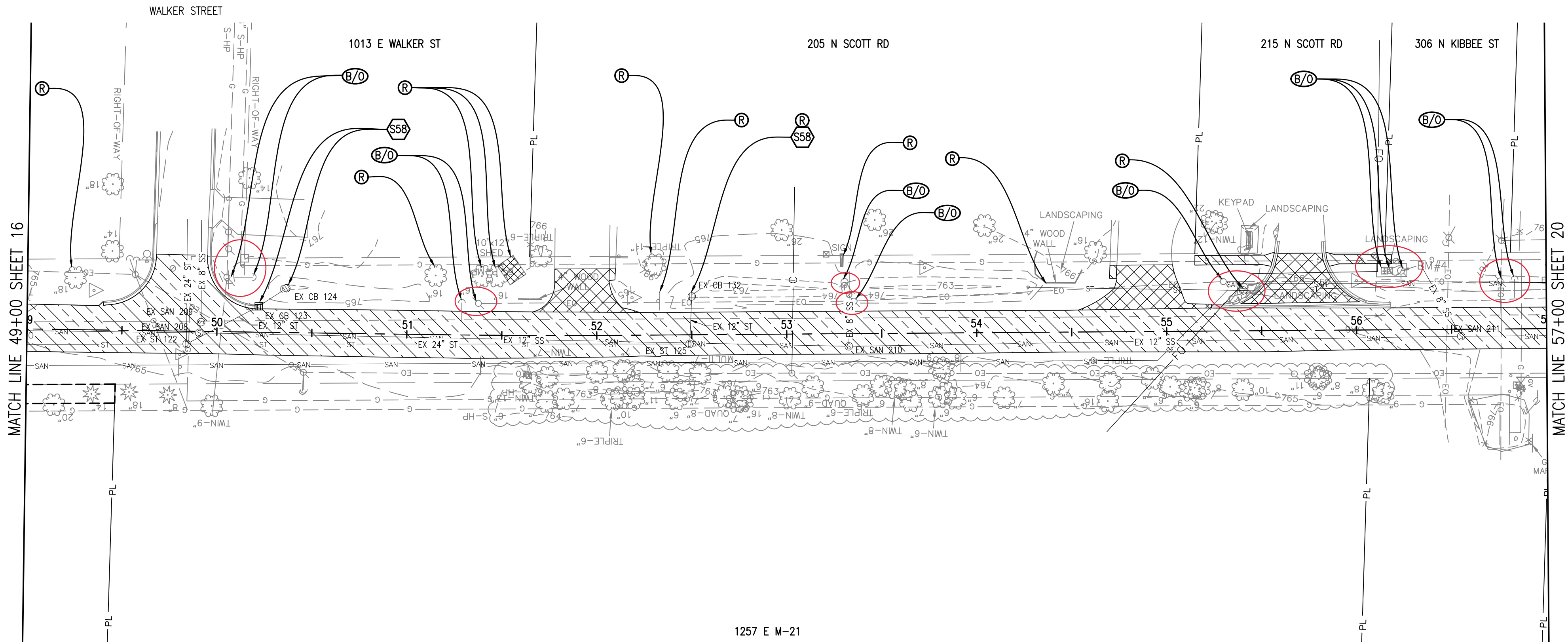
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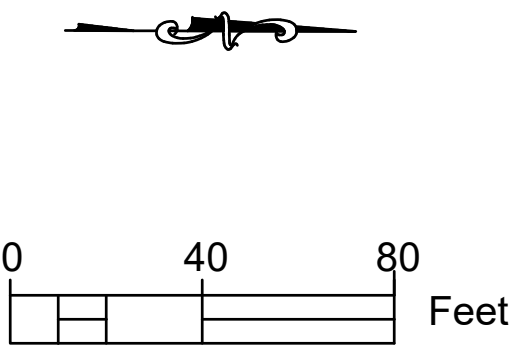
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 DESIGNED BY: .
 CHECKED BY: .



SCOTT ROAD PLAN SHEET STA
49+00 TO 57+00



BENCHMARKS
B.M. #4 - NORTHWEST FLANGE BOLT ON HYDRANT UNDER
"M" IN MADE ON WEST SIDE OF SCOTT ROAD, 600'±
NORTH OF WALKER STREET
ELEV. 767.58' NAVD 88



203619 PARTICIPATING REMOVAL QUANTITIES THIS SHEET

- 303 Syd Pavt, Rem
- 269 Ft Curb and Gutter, Rem
- 47 Syd Sidewalk, Rem
- 4 Ea Stump, Rem, 6 inch to 18 inch
- 1 Ea Sign, Type III, Rem

NON-PARTICIPATING REMOVAL QUANTITIES THIS SHEET

- 2,180 Syd HMA Base Crushing and Shaping
- 3 Ea Dr Structure, Rem
- 200 Ft Sewer, Rem, Less than 24 inch

- DEMOLISH EXISTING BUILDING
- CRUSH AND SHAPE EXISTING BITUMINOUS SURFACE
- REMOVE EXISTING BITUMINOUS SURFACE SAWCUT AT REMOVAL LIMITS
- REMOVE EXISTING CONCRETE SIDEWALK

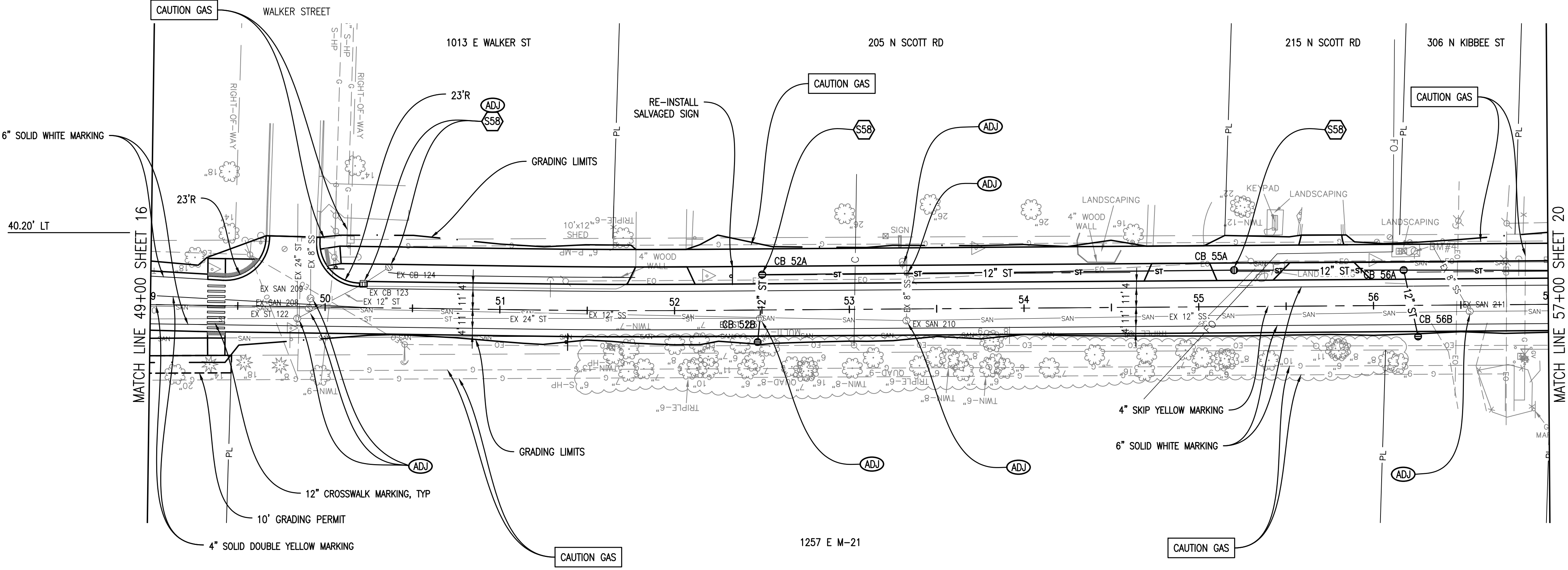
EROSION CONTROL ITEM. SEE SHEET 6 FOR DETAIL.
THE AREA WITHIN THE EARTH DISTURBANCE LIMITS IS APPROXIMATELY 4.87 ACRES.

203619 PARTICIPATING QUANTITIES THIS SHEET

- 808 Ft Shared Use Path, Grading
- 100 Cyd Subbase, CIP
- 6,780 Sft Sidewalk, Conc, 4 inch
- 1,100 Sft Sidewalk, Conc, 6 inch
- 470 Sft Sidewalk Ramp, Conc, 6 inch
- 56 Ft Detectable Warning Surface
- 46 Ft Curb Ramp Opening, Conc
- 80 Ft Curb and Gutter, Conc, Det F4
- 132 Syd Approach, CI I, 6 inch
- 29 Ton HMA Approach
- 1 Ea Sign, Type III, Erect, Salv
- 32 Ft Post, Steel, 3 lb
- 1 Ea Gate Box, Adj, Case 2
- 2,500 Syd Slope Restoration, Modified
- 90 Ft Pavt Mrkg, Only Cold Plastic, 12 inch, Crosswalk

NON-PARTICIPATING QUANTITIES THIS SHEET

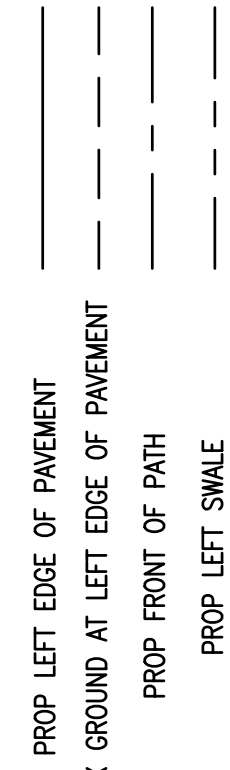
- 4 Ea Erosion Control, Inlet Protection, Fabric Drop
- 8 Sta Machine Grading, Modified
- 2 Ea Dr Structure, 24 inch dia
- 3 Ea Dr Structure, 48 inch dia
- 5 Ea Dr Structure Cover, Modified
- 523 Ft Sewer, CI A, 12 inch, Tr Det B, Modified
- 465 Ton HMA, 13A
- 800 Ft Underdrain, Subbase, 4 inch
- 500 Syd Slope Restoration, Modified
- 3 Ea Dr Structure Cover, Adj, Case 1
- 4 Ea Sanitary Structure Cover, Adj, Case 1
- 667 Ft Pavt Mrkg, Waterborne, 4 inch, Yellow
- 1,510 Ft Pavt Mrkg, Waterborne, 6 inch, White



STATION	Driveway Opening		DRIVEWAY APPROACHES					
	WIDTH AT MATCH	WIDTH AT EOM	DIST. FROM EX. EOM TO MATCH	DRIVE APPROACH SLOPE %	Approach, CI I, 6 inch	HMA Approach (4 inch)	Driveway, Nonreinf Conc, 6 inch	Sidewalk, Conc, 6 inch
51+92, LT	29.4	38.9	22.8	0.9	37.9	8	--	350
54+90, LT	33.1	41.7	23.2	0.3	41.9	9	--	350
55+70, LT	25.7	60.9	28.0	0.3	52.6	12	--	400
TOTALS					132.4	29	--	1,100

DRIVEWAY TABLE FOR INFORMATION ONLY

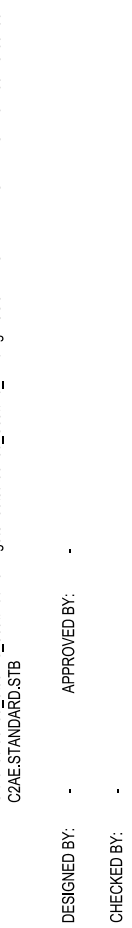
- PROPOSED LEGEND
- ADJ ADJUST
 - U UTILITY CO. TO RELOCATE
 - REL RELOCATE
 - R REMOVE
 - BH BULKHEAD
 - AB ABANDON
 - B/O RELOCATE BY OTHERS



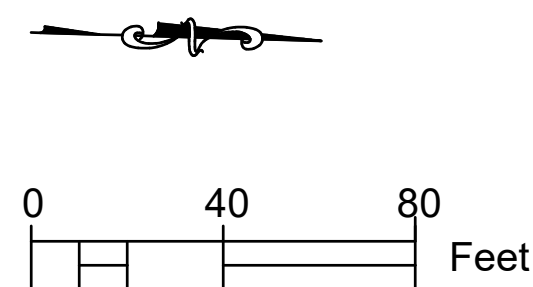
EXISTING PROPOSED

999.9 999.99

CITY OF ST JOHNS
SCOTT ROAD IMPROVEMENTS
CLINTON COUNTY, MI



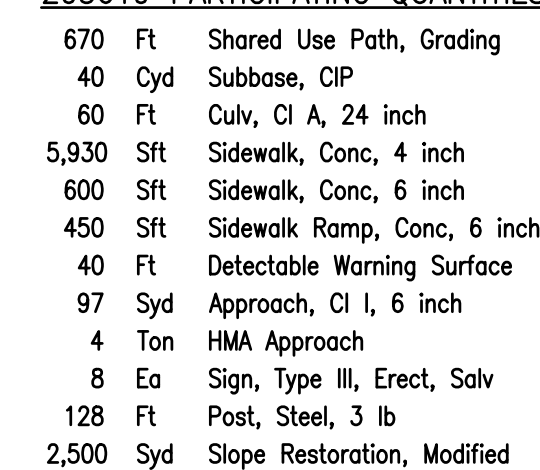
www.c2ae.com



49	Syd	Pavt, Rem
28	Syd	Sidewalk, Rem
8	Ea	Sign, Type III, Rem
12	Ft	Fence, Rem

33	Syd	Pavt, Rem
1,950	Syd	HMA Base Crushing and Shaping
8	Ea	Sign, Rem
3	Ea	Dr Structure, Rem
382	Ft	Sewer, Rem, Less than 24 inch
2	Ea	Culv, Rem, Less than 24 inch

- S58** EROSION CONTROL ITEM. SEE SHEET 6 FOR DETAIL.
- THE AREA WITHIN THE EARTH DISTURBANCE LIMITS IS APPROXIMATELY 4.87 ACRES.



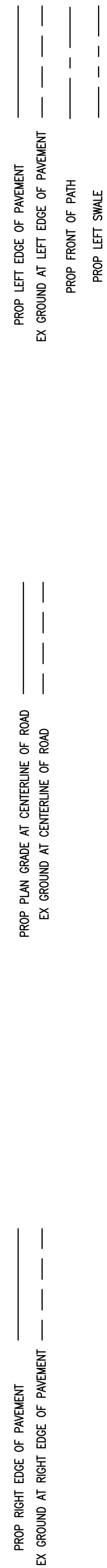
9	Ea	Erosion Control, Inlet Protection, Fabric Drop
7.2	Sto	Machine Grading, Modified
3	Ea	Dr Structure, 24 inch dia
6	Ea	Dr Structure, 48 inch dia
1	Ea	Dr Structure Cover, Type B
8	Ea	Dr Structure Cover, Modified
866	Fl	Sewer, CI A, 12 inch, Tr Det B, Modified
30	Fl	Culv, CI A, 12 inch
490	Ton	HMA, 13A
720	Fl	Underdrain, Subbase, 4 inch
24	Syd	Driveway, Nonrein Conc, 6 inch
9	Ea	Sign, Type III, Erect, Salv
128	Fl	Post, Steel, 3 lb
750	Syd	Slope Restoration, Modified
3	Ea	Sanitary Structure Cover, Adj, Case 1
175	Fl	Pvt Mrgk, Waterborne, 4 inch. Yellow
1,363	Fl	Pvt Mrgk, Waterborne, 6 inch. White

(ADJ)	ADJUST
(U)	UTILITY CO. TO RELOCATE
(REL)	RELOCATE
(R)	REMOVE
(BH)	BULKHEAD
(AB)	ABANDON
(B/O)	RELOCATE BY OTHERS

SCOTT ROAD PLAN SHEET STA
57+00 TO 65+00

[illegible]

BID SET



EXISTING	PROPOSED
999.9	999.99

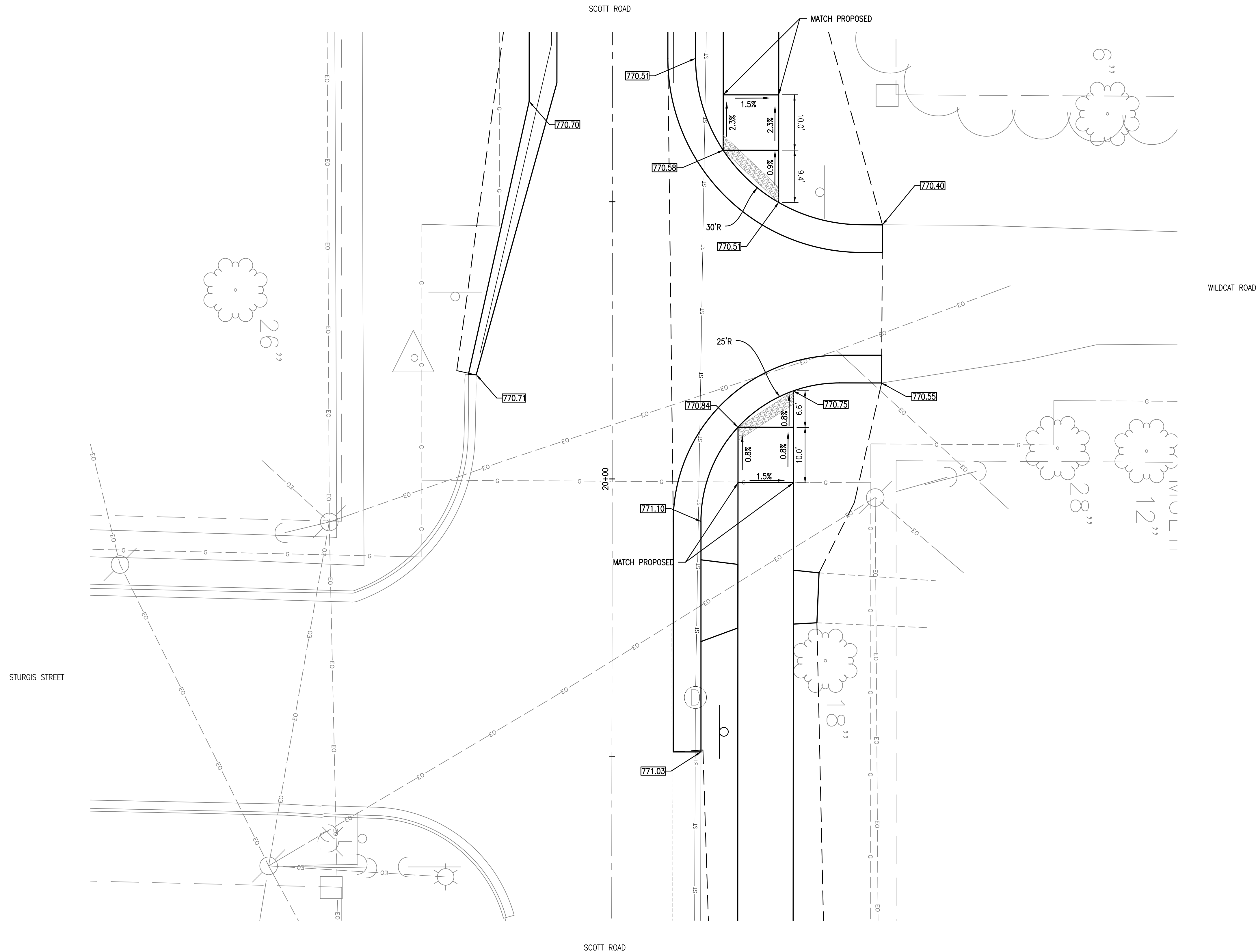
CITY OF ST JOHNS
SCOTT ROAD IMPROVEMENTS
CLINTON COUNTY, MI



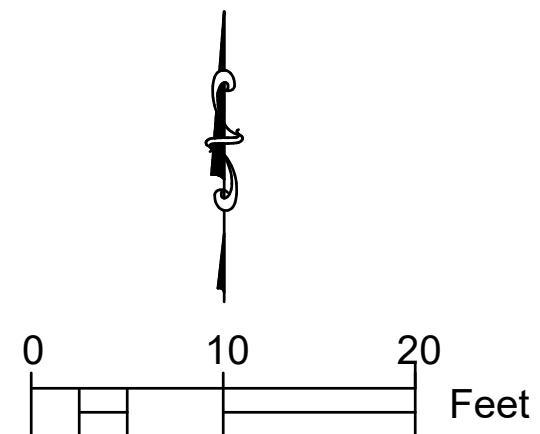
THE BAR BELOW SHOWS GRAYSCALE FROM WHITE TO SOLID BLACK

WHITE [gradient bar] BLACK

 WE RECYCLE



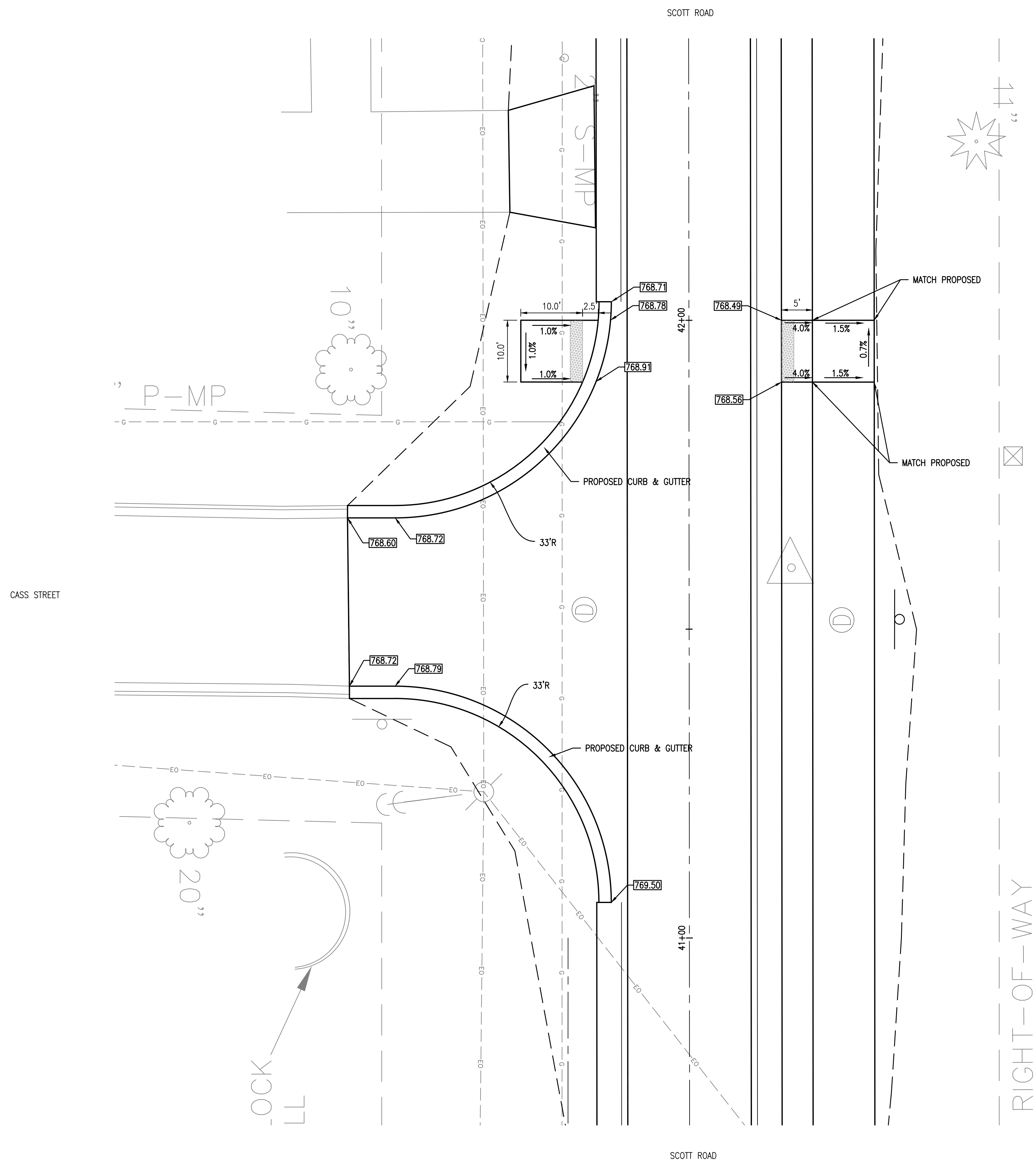
SCOTT RD-WILDCAT RD
SIDEWALK RAMP & INTERSECTION GRADE DETAIL
SCALE: 1"=10'



CITY OF ST JOHNS
SCOTT ROAD IMPROVEMENTS
CLINTON COUNTY, MI

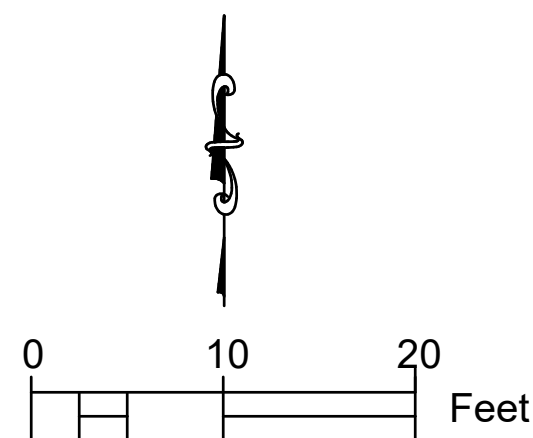
SCOTT-WILDCAT INTERSECTION DETAIL

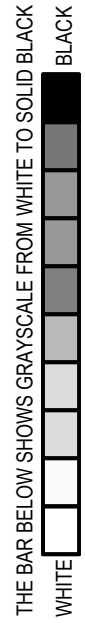
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SCOTT RD-CASS ST
SIDEWALK RAMP & INTERSECTION GRADE DETAIL

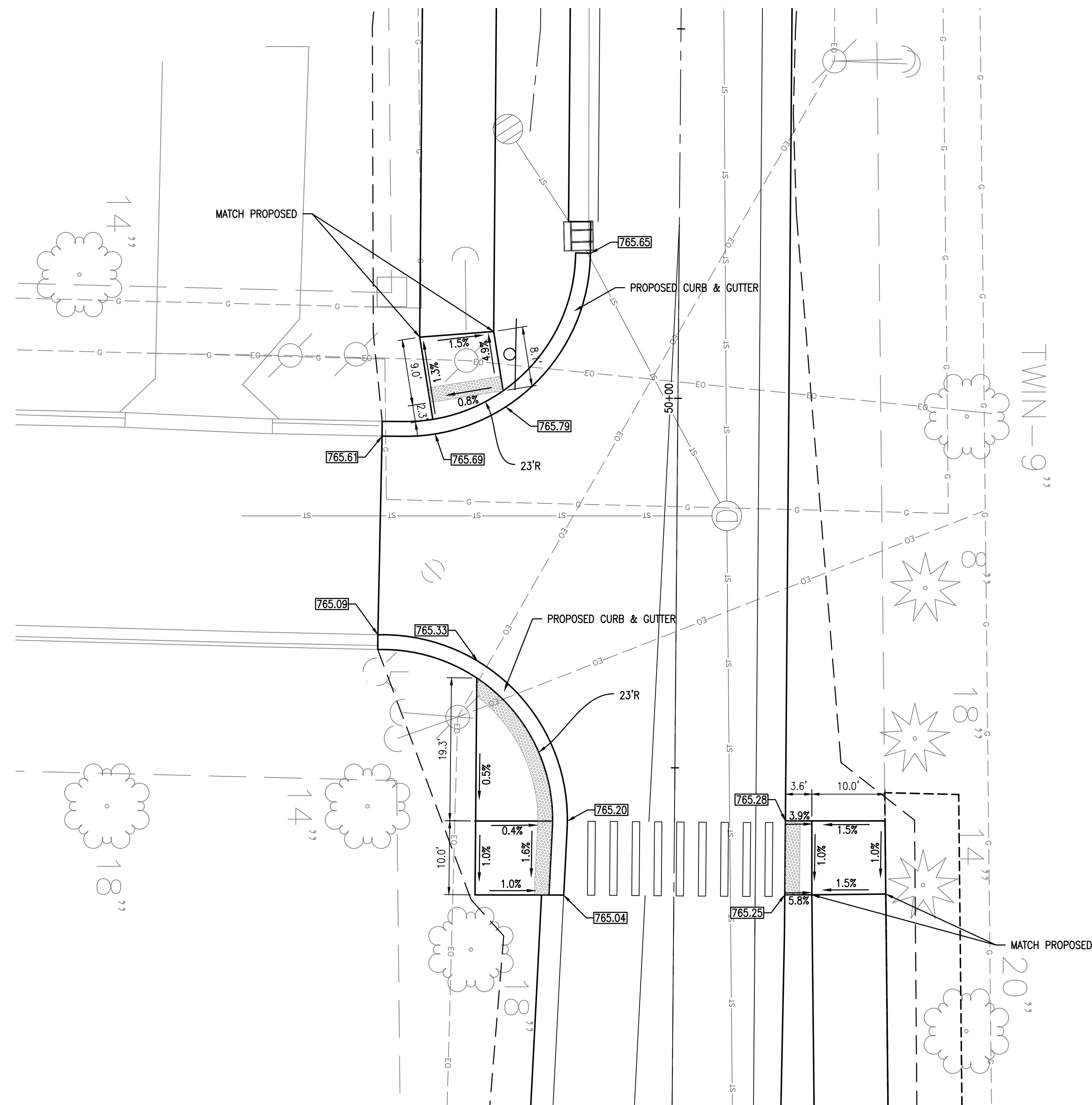
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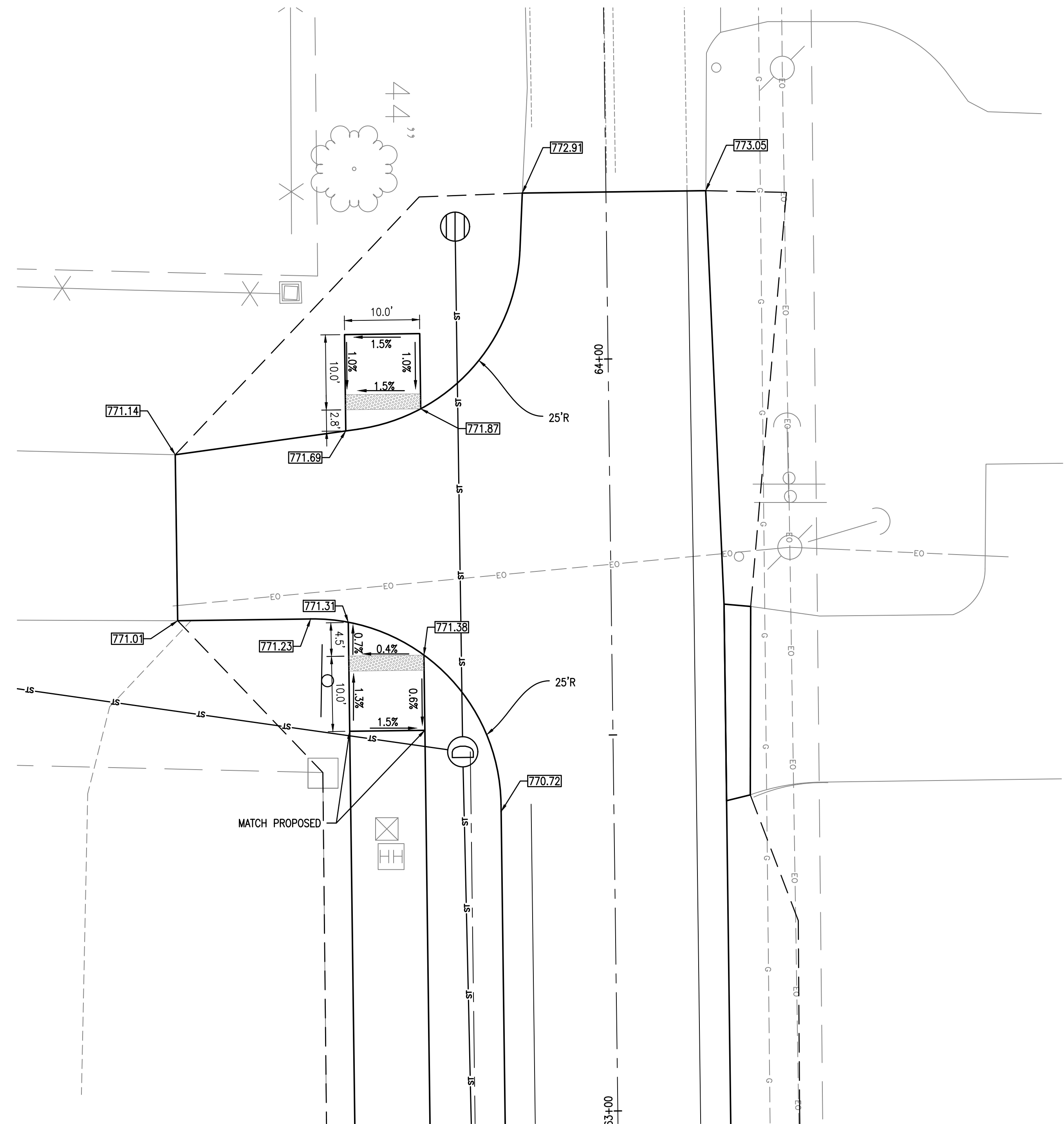


THE BAR BELOW SHOWS GRAYSCALE FROM WHITE TO SOLID BLACK

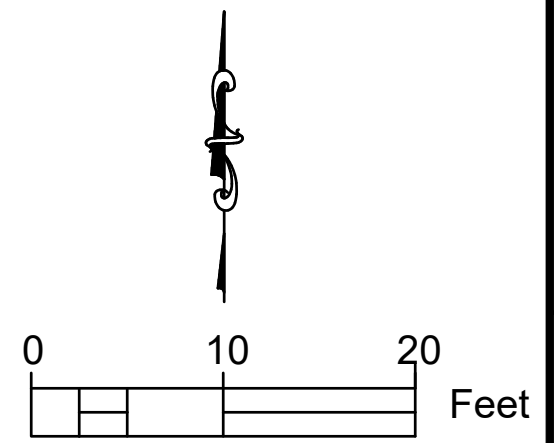
WHITE BLACK



SCOTT RD-WALKER ST
SIDEWALK RAMP & INTERSECTION GRADE DETAIL
SCALE: 1"=10'



SCOTT RD-STEEL ST
SIDEWALK RAMP & INTERSECTION GRADE DETAIL
SCALE: 1"=10'

[illegible]