

BENCHMARKS - NAVD88

ELEVATION - 757.23
RAILROAD SPIKE IN SOUTH SIDE OF WOOD
POLE W/EMERGENCY SIREN, LOCATED 150'±
NORTH OF NW CORNER OF SHAWMUT HILLS
ELEMENTARY SCHOOL & 28' SOUTH OF
BASEBALL DUG OUT.

ELEVATION - 758.67
TOP WEST ANCHOR BOLT ON CONCRETE
BASE TO LIGHT POLE, LOCATED AT THE
NORTH END OF CONCRETE WALK AT
SERVICE DRIVE INTO EAST SIDE OF
PARKING LOT.

CONTROL POINTS - MI SOUTH SPCS 83

CP#1 M&B RED CAP N 540582.2180 E 12758928.8811 ELEV 756.56	CP#2 PK NAIL N 540472.9620 E 12758745.6771 ELEV 757.84	CP#3 M&B RED CAP N 540377.7758 E 12758993.2483 ELEV 755.33
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CP#4 MINI MAG NAIL N 540410.6949 E 12758857.2581 ELEV 758.07	CP#5 M&B RED CAP N 540331.2498 E 12758698.0700 ELEV 757.39
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EXISTING UNDERGROUND UTILITY DATA

STORM MH#1
RIM 758.41
4" PVC INV SW 755.16
4" PVC INV SW 755.16
6" PVC INV N 755.01
8" CLAY INV E 755.01
BOTTOM STRUCTURE 754.91
2" DIA RIM
3" DIA CONC BLOCK STRUCTURE

STORM CB#2
RIM 754.09
10" CLAY INV S 752.09
12" CLAY INV N 752.09
2'x2' SQ RIM
4" DIA CONC BLOCK STRUCTURE

WATERMAIN MH#3
RIM 755.31
2" DIA RIM
VAULT - NO SIZE GIVEN

WATERMAIN MH#4
RIM 757.94
BOTTOM STRUCTURE 752.19
4'x6' VAULT WITH WATER
AND VALVES

SANITARY MH#5
RIM 756.48
DID NOT GET INV INFO
HIGH END OF A SAN RUN
TO THE WEST.

STORM MH#6
RIM 756.70
10" PVC INV SE 753.50
10" PVC INV SW 753.50
10" CLAY INV N 753.20
2" DIA RIM
4" DIA CONC BLOCK STRUCTURE

STORM CB#7
RIM 755.81
10" PVC INV NW 753.71
BOTTOM STRUCTURE 753.26
2" DIA RIM
4" DIA CONC BLOCK STRUCTURE

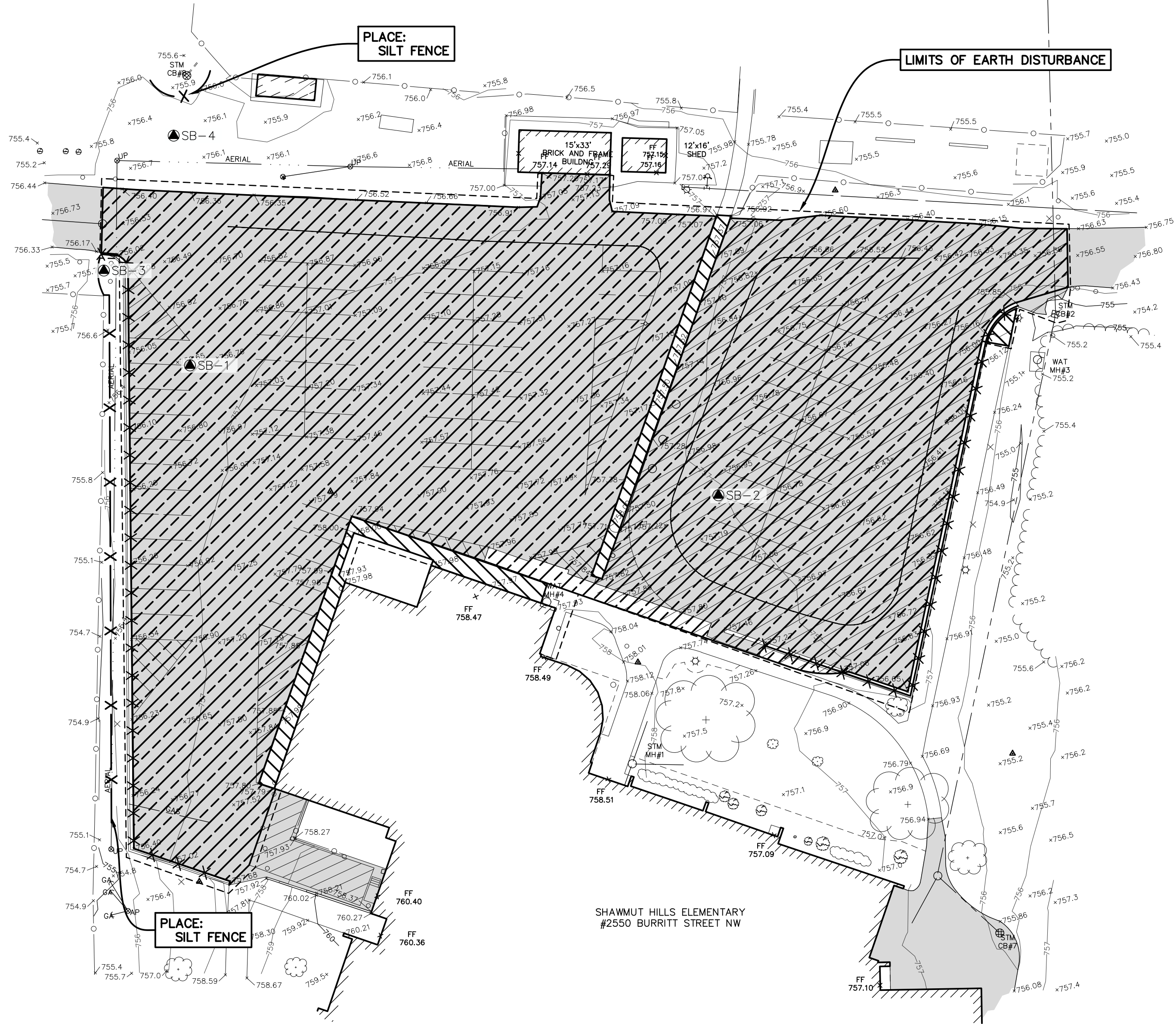
STORM CB#8
RIM 755.06
4" PVC INV E 752.56
2" DIA RIM
2" DIA CONC BLOCK STRUCTURE
DO NOT KNOW WHERE IT GOES

STORM MH#9
RIM 753.49
12" CONC INV S 750.39
12" CMP INV N 750.24
BOTTOM STRUCTURE 750.09
2" DIA RIM
3" DIA PRECAST STRUCTURE

MH#10
RIM 757.09
DID NOT OPEN

MH#11
RIM 757.17
DID NOT OPEN

MH#12
RIM 757.23
DID NOT OPEN



SOIL BORING DATA LIST

DEPTH	DESCRIPTION
SB #1 0 - .2'	ASPHALT
.2' - .86'	GRAVEL
.86' - 3.09'	CLAY BROWN
SB #2 0 - .13'	ASPHALT
.13' - 1.8'	GRAVEL
1.8' - 3.05'	CLAY BROWN
SB #3 0 - .4'	TOPSOIL
.4' - 1.3'	BROWN DIRT
1.3' - 2.3'	SAND/CLAY
2.3' - 3'	SAND FINE
3' - 8.6'	CLAY LOAM-BROWN WET
8.6' - 10'	SAND- FINE WET
10'	GROUND WATER PRESENT
SB #4 0 - .5'	TOPSOIL
.5' - 2.4'	SAND/CLAY-FINE
2.4' - 4'	CLAY BROWN
4' - 5.5'	CLAY LOAM-BROWN
5.5' - 8.1'	CLAY/LOAM-BROWN
8.1' - 10'	SAND/CLAY-BROWN/FINE

GENERAL DEMOLITION NOTES:

1. THE CONTRACTOR SHALL OBTAIN ALL PERMITS AND SURETY AS PART OF THIS WORK.
2. THE CONTRACTOR SHALL CALL MISS DIG 3 WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.
3. THE CONTRACTOR SHALL REMOVE ALL CONCRETE, BIT PAVEMENT, STORM SEWER STRUCTURES, STORM SEWER PIPE, LIGHT POLES, FENCING, UNDERGROUND ELECTRIC, VEGETATION AND SO ON TO PREPARE THE SITE FOR IMPROVEMENTS, CASTINGS, VALVE BOXES AND/OR OTHER UTILITY STRUCTURES TO REMAIN SHALL BE ADJUSTED AND PROTECTED FROM DAMAGE.
4. ALL SOIL EROSION CONTROL MEASURES SHALL COMPLY ACT 451 OF PUBLIC ACTS OF 1997, SOIL EROSION AND SEDIMENTATION CONTROL, NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION ACT.
5. ALL SOIL EROSION CONTROL MEASURE SHALL BE IN PLACE PRIOR TO COMMENCEMENT OF EARTHWORK ACTIVITIES.
6. THE CONTRACTOR SHALL CLEAN PUBLIC STREETS DAILY OF ANY DIRT AND/OR DEBRIS FROM CONSTRUCTION SITE.

INLET PROTECTION NOTE

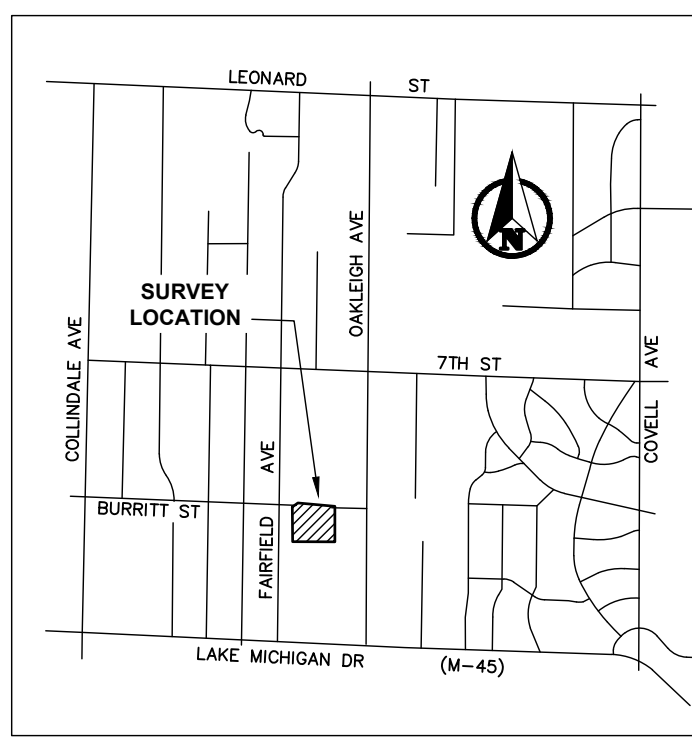
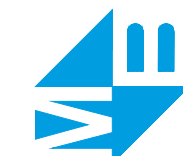
1. CLEANOUT ALL STORM MANHOLES AND CATCH BASINS LOCATED WITHIN PROJECT AREA

REMOVAL LEGEND

	FULL DEPTH HMA SURFACE REMOVAL
	SIDEWALK, REM
	CURB AND GUTTER, REM



Utility locations are approximate only.
Please contact "Miss Dig" three working
days prior to the start of construction
for exact locations.
(1-800-482-7171)



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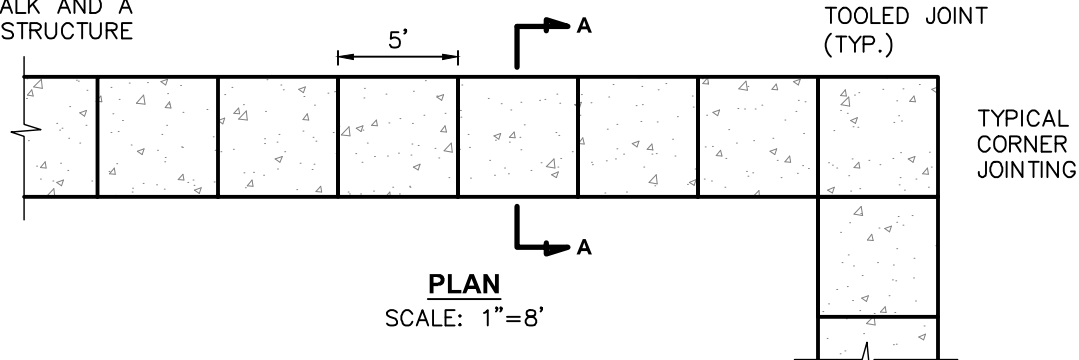
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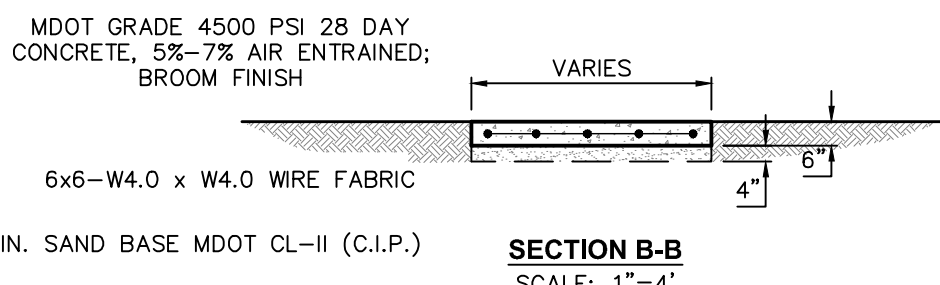
MH#11
RIM 757.17
DID NOT OPEN

MH#12
RIM 757.23
DID NOT OPEN

1/2" EXPANSION JOINT EVERY
30' AND/OR AT EACH JOINT
BETWEEN SIDEWALK AND A
STRUCTURE



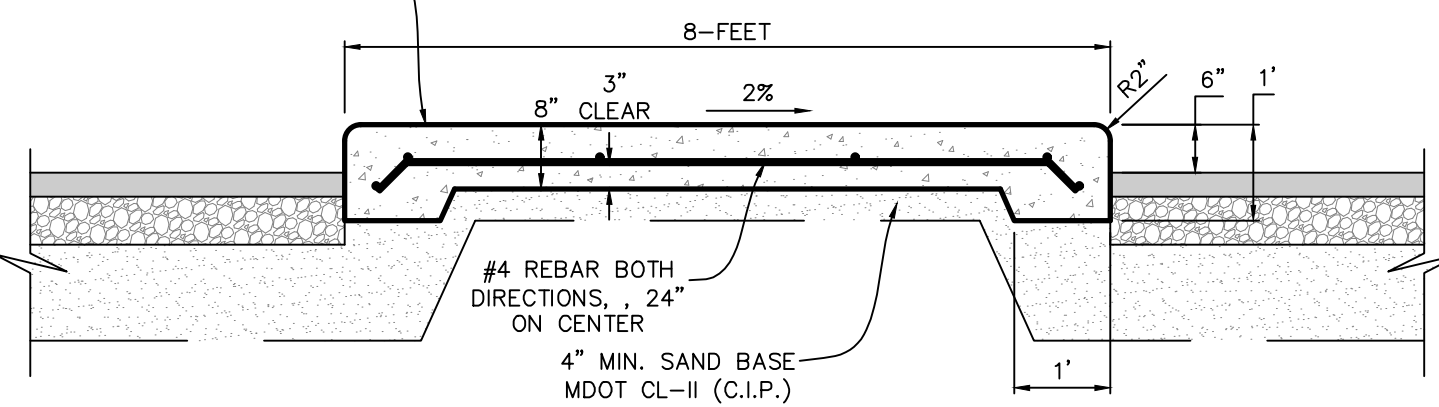
PLAN
SCALE: 1"=8'



SECTION B-B
SCALE: 1"=4'

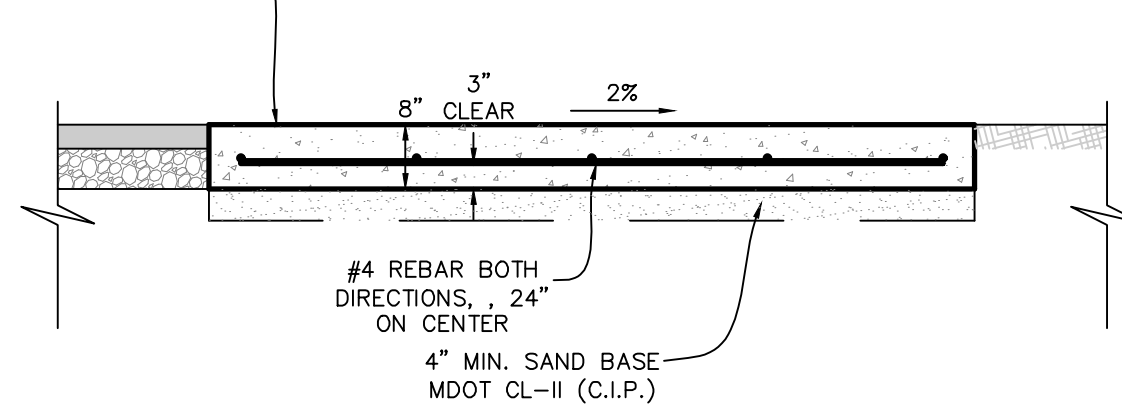
6" REINFORCED CONCRETE SIDEWALK DETAIL

MDOT GRADE 4500 PSI 28
DAY CONCRETE, 5%-7% AIR
ENTRAINED; BROOM FINISH

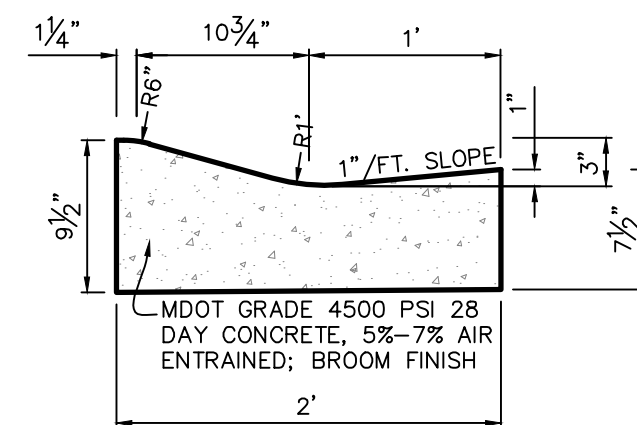


RAISED CONCRETE WALK DETAIL
SCALE: 1"=2'

MDOT GRADE 4500 PSI 28
DAY CONCRETE, 5%-7% AIR
ENTRAINED; BROOM FINISH

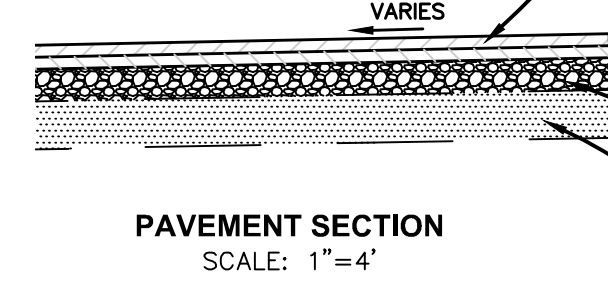


CONCRETE DUMPSTER PAD DETAIL
SCALE: 1"=2'

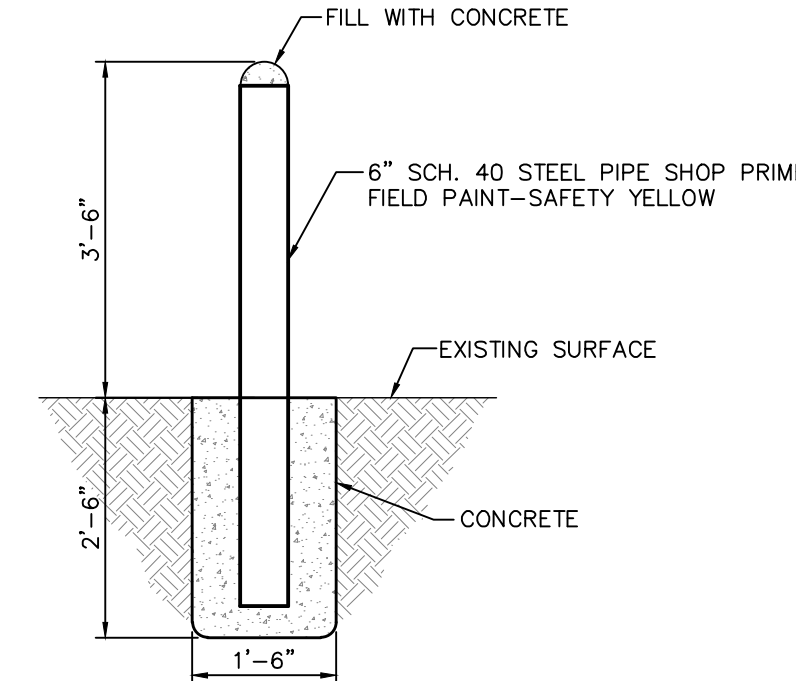


24" ROLLED CURB & GUTTER DETAIL
SCALE: 1"=1'

STANDARD DUTY:
1-1/2 INCH HMA, 4C (TOP)
1-1/2 INCH HMA, 3C (BASE)
HEAVY DUTY:
3 INCH HMA 3C (TOP)
3 INCH HMA 3C (BASE)



PAVEMENT SECTION
SCALE: 1"=4'



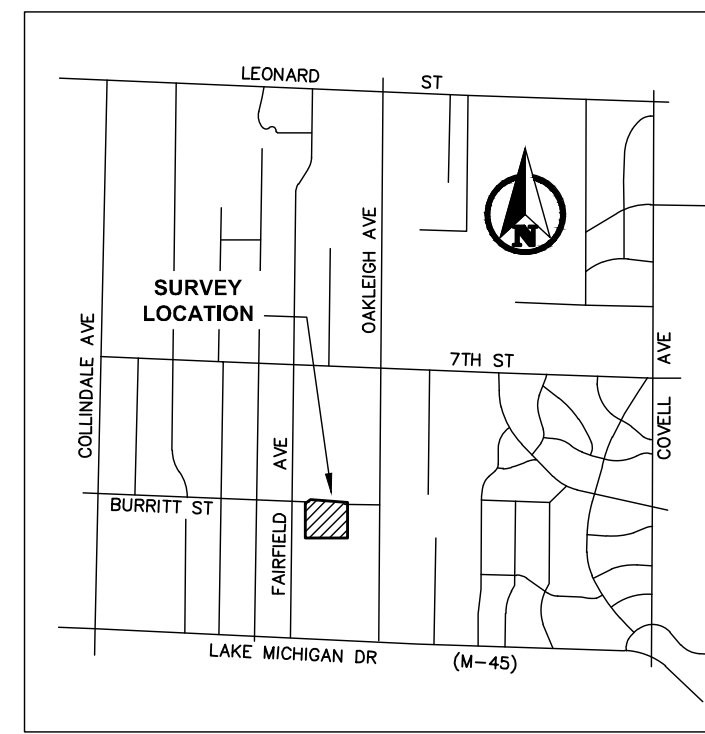
BUMP POST DETAIL
SCALE: 1"=2'

SITE PLAN GENERAL NOTES:

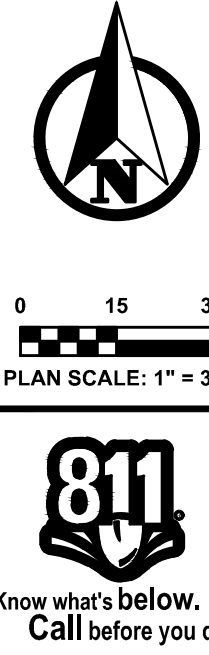
1. THE CONTRACTOR SHALL OBTAIN ALL PERMITS AND SURETY AS PART OF THIS WORK.
2. THE CONTRACTOR SHALL CALL MISS DIG 3 WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.
3. ALL STORM SEWER PIPE SHALL BE C-76-IV CONCRETE UNLESS OTHERWISE SPECIFIED.
4. ALL CATCH BASINS AND MANHOLES SHALL BE MINIMUM 4' DIAMETER PRECAST CONCRETE, UNLESS NOTED OTHERWISE.
5. THE CONTRACTOR SHALL BED AND BACKFILL ALL UNDERGROUND PIPING WITH MDOT CL-2 SAND TO A MINIMUM OF 95% MAXIMUM DRY DENSITY PER ASTM- 1557.

SOIL EROSION CONTROL NOTES:

1. THE CONTRACTOR SHALL REMOVE ALL CONCRETE, BIT PAVEMENT, STORM SEWER STRUCTURES, STORM SEWER PIPE, LIGHT POLES, FENCING, UNDERGROUND ELECTRIC, VEGETATION AND SO ON TO PREPARE THE SITE FOR IMPROVEMENTS, CASTINGS, VALVE BOXES AND/OR OTHER UTILITY STRUCTURES TO REMAIN SHALL BE ADJUSTED AND PROTECTED FROM DAMAGE.
2. NORTH AMERICAN GREEN DS-150 EROSION CONTROL BLANKET SHALL BE PLACED ON ALL SLOPES 1:3 OR GREATER. SECURE BLANKET TO SLOPE PER MANUFACTURERS SPECIFICATIONS.
3. ALL SILT FENCING SHALL BE TRENCHED IN PRIOR TO COMMENCEMENT OF EARTHWORK ACTIVITIES.
4. SILT FENCING IS REQUIRED ALONG ALL DOWNSTREAM EDGES OF THE GRADING LIMITS AND MUST REMAIN IN PLACE UNTIL VEGETATION IS UNIFORMLY RE-ESTABLISHED.
5. ALL SOIL EROSION CONTROL MEASURES SHALL COMPLY WITH ACT 451 OF PUBLIC ACTS OF 1997, SOIL EROSION AND SEDIMENTATION CONTROL, NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION ACT.
6. NEW & EXISTING STORM SEWER INLET POINTS SHALL BE PROTECTED FROM SEDIMENT INFILTRATION WITH INLET FABRIC DROP (SILT SACK).
7. ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSPECTED AND MAINTAINED ON A DAILY BASIS, AND IMMEDIATELY FOLLOWING EVERY SIGNIFICANT RAINFALL EVENT.
8. ALL EXCESS SPOILS ARE TO BE REMOVED FROM THE SITE. OTHERWISE STOCKPILES MUST BE PROVIDED WITH TEMPORARY AND PERMANENT STABILIZATION MEASURES.
9. IF EXCESS DIRT IS TO BE PLACED ON SITE, THE LOCATION SHALL BE APPROVED BY THE PROPERTY OWNER & ENGINEER.
10. ALL TEMPORARY EROSION CONTROLS MUST REMAIN IN PLACE UNTIL VEGETATION IS UNIFORMLY RE-ESTABLISHED.
11. DUST CONTROL SHALL BE PROVIDED BY MEANS OF WATER DISTRIBUTION ON A REGULAR BASIS OVER AREAS THAT COULD POTENTIALLY PRODUCE DUST CONDITIONS.
12. CONTRACTOR SHALL SWEEP PAVED AREAS EACH DAY (OR MORE AS NEEDED) BY MECHANICAL MEANS FOR ALL PAVED AREAS IN AND AROUND THE PERIMETER OF THE PROJECT AFFECTED BY TRUCKING OPERATIONS.
13. ALL DISTURBED AREAS SHALL BE RESTORED WITH 4" TOPSOIL (MIN), SEED, FERTILIZER AND MULCH UNLESS OTHERWISE NOTED.



LOCATION MAP
NO SCALE:



PLAN REVISIONS

01-18-2023 UNDER REVIEW
03-19-2024 ISSUED FOR BIDS

Moore+Bruggink
Consulting Engineers
2020 Monroe Ave.
Grand Rapids, MI 49505
(616) 363-9801
mailto:mbruce.com

SITE IMPROVEMENTS
FOR
SHAWMUT HILLS
CITY OF GRAND RAPIDS, KENT COUNTY, MICHIGAN

FIELD SURVEY / DATE
M+B 7-25-22

PROJECT NO.:
220168.01

DESIGN DRAWN BY:
ESA/BCG

DESIGNED BY:
ZSV

CHECKED BY:
ZSV

PLAN DATE:
01-24-23

SHEET NUMBER
2 OF 4

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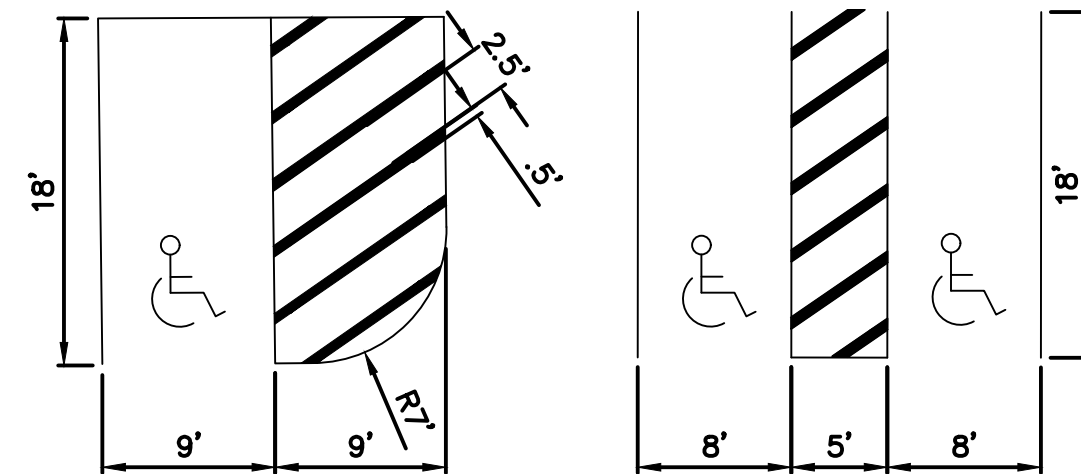
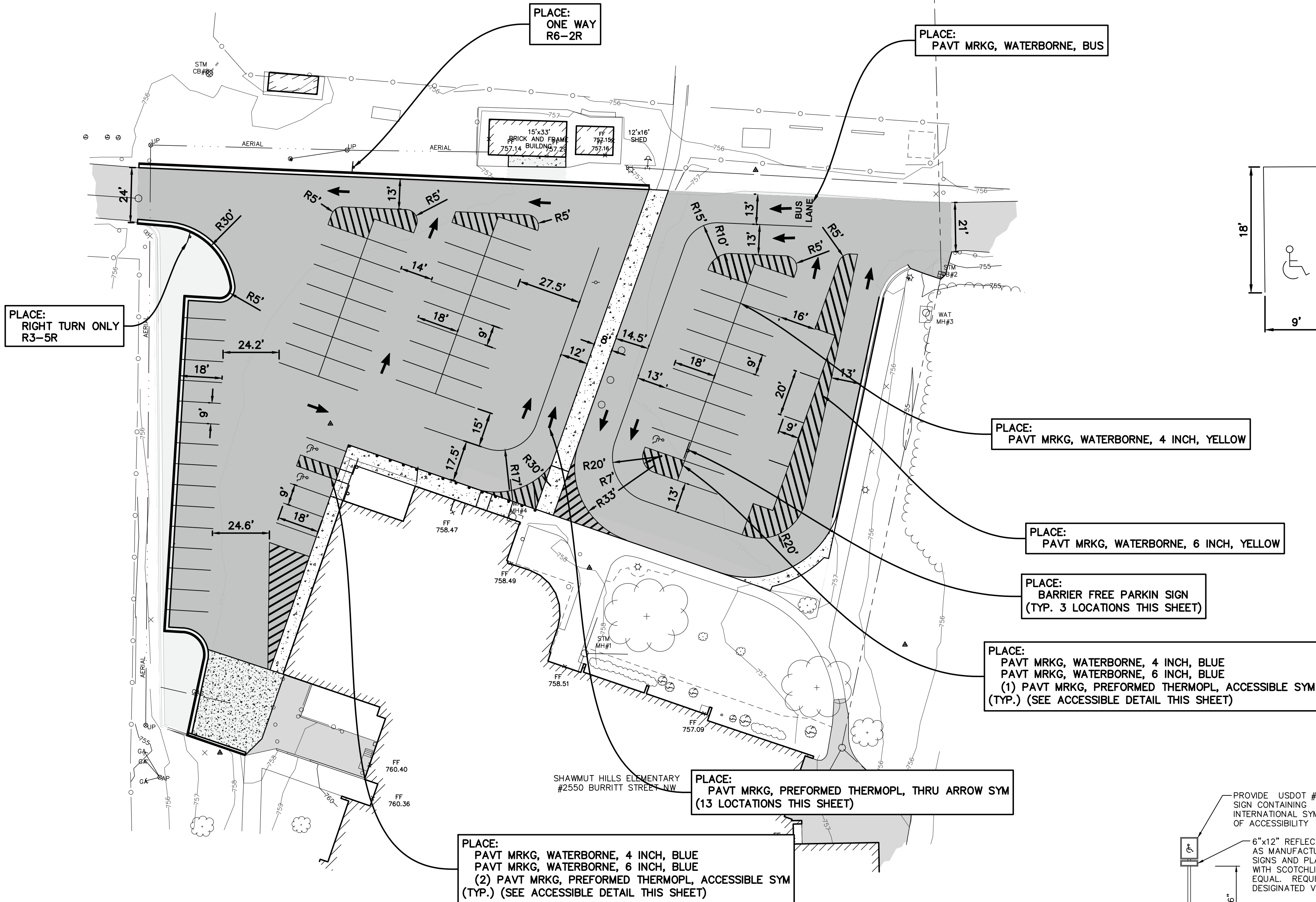
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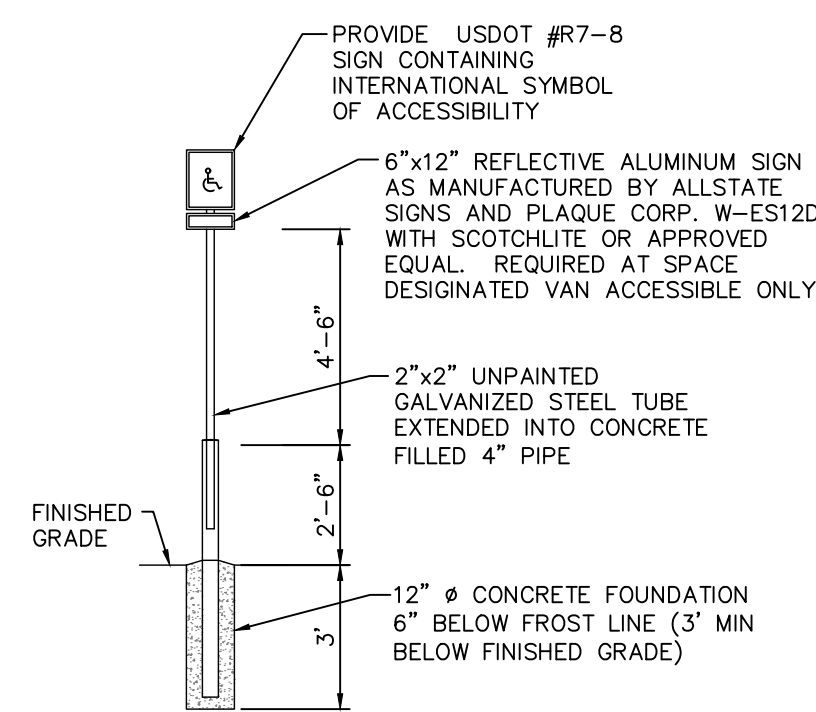


ACCESSIBLE DETAIL
SCALE: 1"=10'

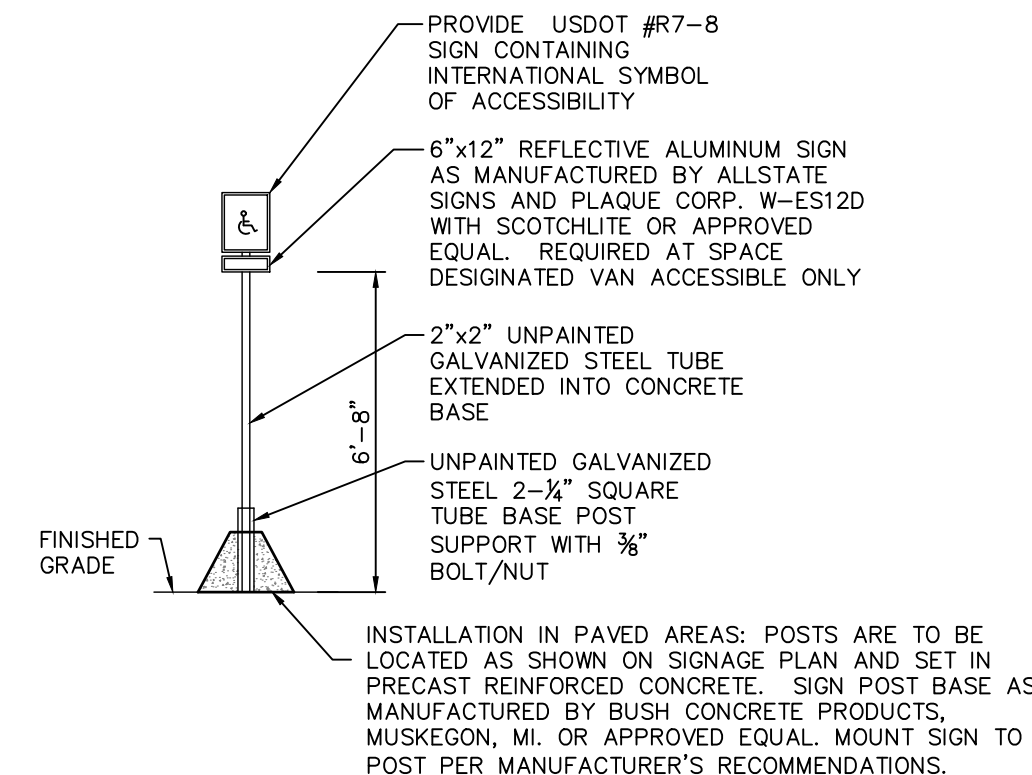
PARKING SUMMARY
EXISTING REGULAR: 70
EXISTING ADA: 0

PROPOSED REGULAR: 74
PROPOSED ADA: 3

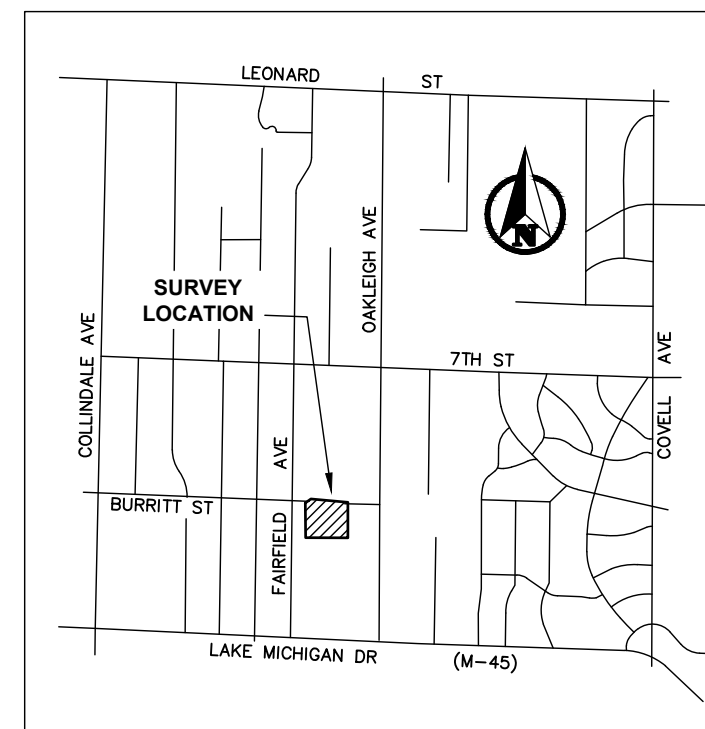
NET GAINED SPACES: 7



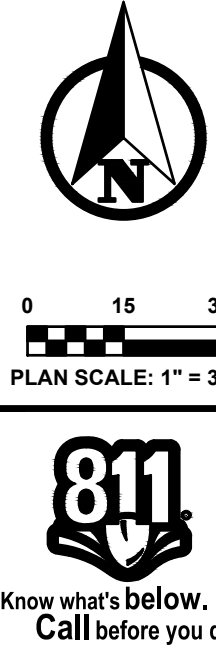
BARRIER FREE PARKING SIGN DETAIL
(IN LAWN AREAS)
SCALE: 1"=4'



BARRIER FREE PARKING SIGN DETAIL
(IN PAVED AREAS)
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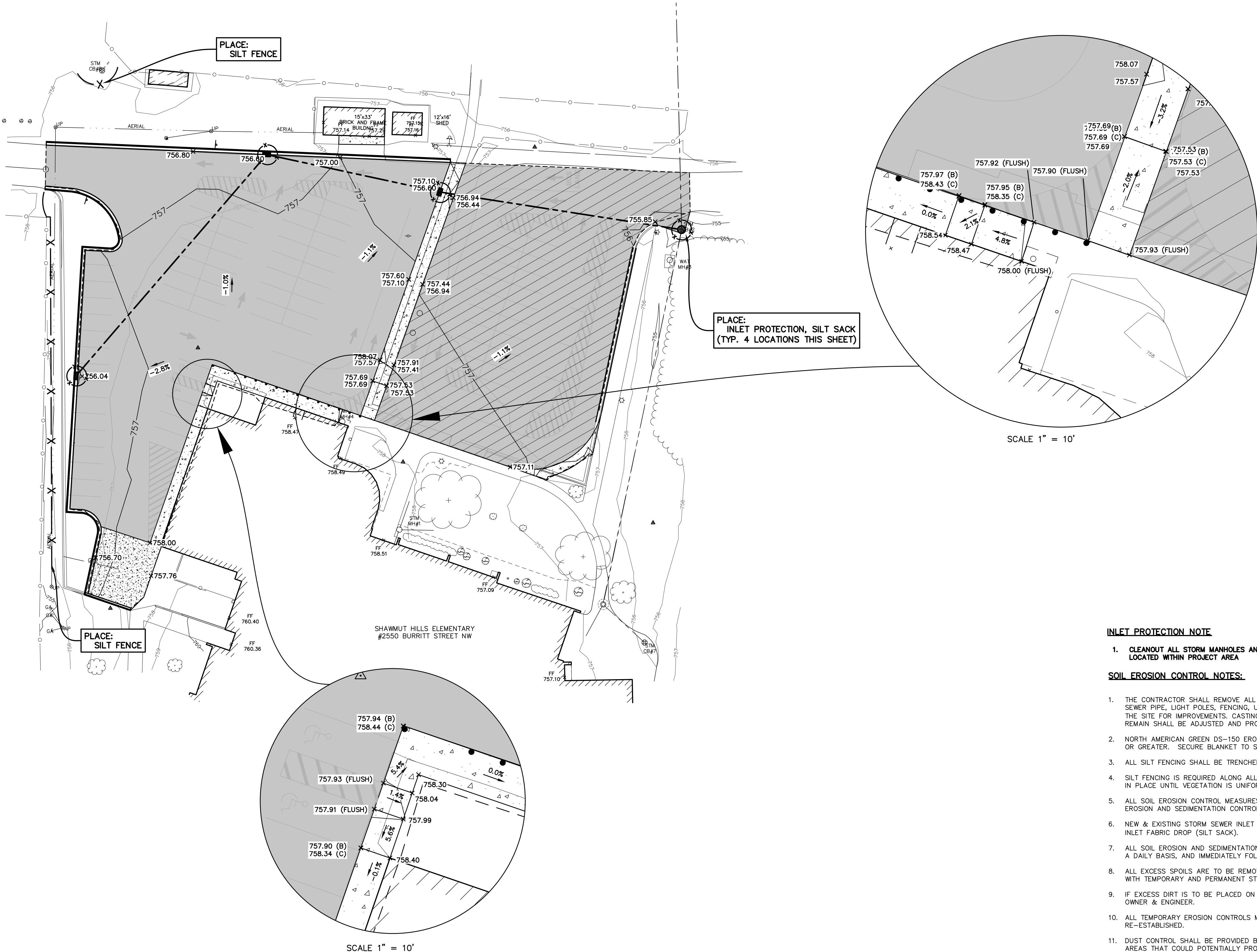
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1. THE CONTRACTOR SHALL REMOVE ALL CONCRETE, BIT PAVEMENT, STORM SEWER STRUCTURES, STORM SEWER PIPE, LIGHT POLES, FENCING, UNDERGROUND ELECTRIC, VEGETATION AND SO ON TO PREPARE THE SITE FOR IMPROVEMENTS. CASTINGS, VALVE BOXES AND/OR OTHER UTILITY STRUCTURES TO REMAIN SHALL BE ADJUSTED AND PROTECTED FROM DAMAGE.
2. NORTH AMERICAN GREEN DS-150 EROSION CONTROL BLANKET SHALL BE PLACED ON ALL SLOPES 1:3 OR GREATER. SECURE BLANKET TO SLOPE PER MANUFACTURERS SPECIFICATIONS.
3. ALL SILT FENCING SHALL BE TRENCHED IN PRIOR TO COMMENCEMENT OF EARTHWORK ACTIVITIES.
4. SILT FENCING IS REQUIRED ALONG ALL DOWNSTREAM EDGES OF THE GRADING LIMITS AND MUST REMAIN IN PLACE UNTIL VEGETATION IS UNIFORMLY RE-ESTABLISHED.
5. ALL SOIL EROSION CONTROL MEASURES SHALL COMPLY WITH ACT 451 OF PUBLIC ACTS OF 1997, SOIL EROSION AND SEDIMENTATION CONTROL, NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION ACT.
6. NEW & EXISTING STORM SEWER INLET POINTS SHALL BE PROTECTED FROM SEDIMENT INFILTRATION WITH INLET FABRIC DROP (SILT SACK).
7. ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSPECTED AND MAINTAINED ON A DAILY BASIS, AND IMMEDIATELY FOLLOWING EVERY SIGNIFICANT RAINFALL EVENT.
8. ALL EXCESS SPOILS ARE TO BE REMOVED FROM THE SITE. OTHERWISE STOCKPILES MUST BE PROVIDED WITH TEMPORARY AND PERMANENT STABILIZATION MEASURES.
9. IF EXCESS DIRT IS TO BE PLACED ON SITE, THE LOCATION SHALL BE APPROVED BY THE PROPERTY OWNER & ENGINEER.
10. ALL TEMPORARY EROSION CONTROLS MUST REMAIN IN PLACE UNTIL VEGETATION IS UNIFORMLY RE-ESTABLISHED.
11. DUST CONTROL SHALL BE PROVIDED BY MEANS OF WATER DISTRIBUTION ON A REGULAR BASIS OVER AREAS THAT COULD POTENTIALLY PRODUCE DUST CONDITIONS.
12. CONTRACTOR SHALL SWEEP PAVED AREAS EACH DAY (OR MORE AS NEEDED) BY MECHANICAL MEANS FOR ALL PAVED AREAS IN AND AROUND THE PERIMETER OF THE PROJECT AFFECTED BY TRUCKING OPERATIONS.
13. ALL DISTURBED AREAS SHALL BE RESTORED WITH 4" TOPSOIL (MIN), SEED, FERTILIZER AND MULCH UNLESS OTHERWISE NOTED.