

CITY OF ROCHESTER HILLS OAKLAND COUNTY, MICHIGAN EMMONS AVENUE PLAZA DESIGN

CITY OF ROCHESTER HILLS

BRYAN K. BARNETT
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• DIRECTOR OF PUBLIC SERVICES •

PAUL M. DAVIS, P.E.
• CITY ENGINEER/DPS DEPUTY DIRECTOR •

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LOCATION MAP
N.T.S.

GENERAL PROVISIONS

THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE DONE IN ACCORDANCE WITH THE PROPOSAL AND ACCOMPANYING SPECIFICATIONS FOR THIS PROJECT INCLUDING THE 2012 MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, AASHTO'S 2011 A POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS, AND MDT'S 2017 GUIDELINES FOR GEOMETRICS ON LOCAL AGENCY PROJECTS, BOTH 3R AND 4R GUIDELINES.

PAVEMENT MARKING AND PLACING OF TRAFFIC CONTROL SIGNS SHALL BE DONE IN ACCORDANCE WITH THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, 2011 EDITION. THIS WORK WILL BE DONE PRIOR TO THE FINAL ACCEPTANCE OF THIS PROJECT.

THE LOCATION OF ALL PUBLIC UTILITIES SHOWN ON THESE PLANS IS TAKEN FROM THE BEST AVAILABLE DATA. THE CITY OF ROCHESTER HILLS WILL NOT BE RESPONSIBLE FOR ANY OMISSION OR VARIATION FROM THE LOCATIONS SHOWN. PURSUANT TO ACT 174 OF THE P.A. OF 2013, AS A CONDITION OF THIS CONTRACT, NOTICE SHALL BE GIVEN TO MISS DIG PRIOR TO UNDERGROUND WORK TO BE PERFORMED IN ACCORDANCE WITH THIS CONTRACT, PHONE (800) 482-7171. UTILITY SERVICE CONNECTIONS ARE NOT SHOWN ON THE PLANS AND ARE NOT THE RESPONSIBILITY OF THE CITY.

THE ELEVATIONS ON THESE PLANS ARE BASED ON NAVD 1988 VERTICAL DATUM.

CONTRACT FOR:
DEVELOPMENT AND INSTALLATION OF EMMONS AVENUE PLAZA SITE DESIGN AND AUBURN ROAD MEDIAN AND ROUNDABOUT GATEWAY STRUCTURES, IN ROCHESTER HILLS, MI.



Advancing Communities

34000 Plymouth Road | Livonia, MI 48150
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PREPARED UNDER THE SUPERVISION OF:

56021
Registration No.

Timothy Juidici, P.E. Date

CITY OF ROCHESTER HILLS APPROVAL:

ALLAN E. SCHNECK, P.E. Date
Public Services Director

PAUL M. DAVIS, P.E. Date
City Engineer/DPS Deputy Director

REVISIONS

PROJECT NO.	SHEET NO.
0190-17-0020	1 OF 17

GENERAL NOTES

- CONTRACTOR SHALL BE RESPONSIBLE FOR BEING FAMILIAR WITH ALL DOCUMENTED UNDERGROUND UTILITIES, PIPES AND STRUCTURES. LOCATE AND PROTECT ALL EXISTING UTILITIES DURING CONSTRUCTION UNLESS OTHERWISE NOTED. CONTACT MISS DIG (811 OR 800-482-7171) A MINIMUM OF 3 DAYS PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL NOT WILLFULLY PROCEED WITH CONSTRUCTION AS DESIGNED WHEN IT IS OBVIOUS THAT UNKNOWN OBSTRUCTIONS AND/OR GRADE DIFFERENCES EXIST. SUCH CONDITIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COORDINATION WITH SUBCONTRACTORS AS REQUIRED TO ACCOMPLISH PLANTING OPERATIONS.
- ALL WORK TO BE PERFORMED BY LICENSED AND INSURED CONTRACTORS AND EXPERIENCED WORKERS.
- REFER TO DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- THE CONTRACTOR SHALL KEEP ALL DRAINAGE FACILITIES (CATCH BASINS, YARD DRAINS, ETC.) AFFECTED BY THEIR CONSTRUCTION OPERATIONS CLEAN AND FULLY OPERATIONAL AT ALL TIMES.
- CONTRACTOR SHALL REPAIR AT THEIR OWN EXPENSE, ANY DAMAGE, WHETHER INSIDE OR OUTSIDE OF THE PROJECT LIMITS, TO UTILITY SYSTEMS, SURFACE PAVEMENTS, FIXTURES, STRUCTURES, AND/OR EXISTING TREES OR LANDSCAPING THAT ARE NOT SPECIFICALLY INDICATED TO BE REMOVED OR RELOCATED AS PART OF THE PROJECT CONSTRUCTION. IN THE EVENT THAT ANY EXISTING DRAINAGE STRUCTURES OR UTILITIES ARE DAMAGED AND THE SERVICES DISRUPTED, THE LINES SHALL BE IMMEDIATELY REPAIRED AND THE SERVICES RESTORED AS DIRECTED BY THE ENGINEER.
- IN THE EVENT THAT DISCREPANCIES ARISE BETWEEN WHAT IS SHOWN ON THE DRAWINGS AND ACTUAL FIELD CONDITIONS THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY FOR RESOLUTION.
- THE CONTRACTOR IS RESPONSIBLE FOR CONSISTENCY OF THE ANGLE OF THE SCORING PATTERN AND JOINTING PATTERN IN THE CROSSWALKS. THE SCORING PATTERN IS SUBJECT TO THE ENGINEERS APPROVAL.

LAYOUT NOTES

- ALL DIMENSIONS SHOWN ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED.
- DO NOT SCALE DRAWINGS. UTILIZE DIMENSIONS INDICATED ON THE PLANS.
- ALL DIMENSIONS ARE TO THE EDGE OF PAVEMENT, FACE OF WALL, OR FACE OF CURB UNLESS OTHERWISE NOTED.
- WALKWAYS AND HARDSCAPE ELEMENTS INDICATED AS CURVILINEAR SHALL HAVE SMOOTH CONTINUOUS CURVES.
- UNLESS INDICATED OTHERWISE, ALL WALKWAYS ABUT AT 90 DEGREE ANGLES.
- ALL CONCRETE SCORING SHALL BE PARALLEL, PERPENDICULAR OR TANGENT TO ADJACENT IMPROVEMENTS UNLESS OTHERWISE NOTED AND AS APPROVED BY THE ENGINEER.
- LAYOUT ALL CONSTRUCTION LINES AND VERIFY LAYOUT WITH THE ENGINEER PRIOR TO BEGINNING ANY CONSTRUCTION WORK.
- DIMENSIONS FOR PLANT BEDS ARE APPROXIMATE. STAKE PLANT BEDS ON-SITE FOR FINAL APPROVAL BY ENGINEER.
- REFER TO GENERAL NOTES FOR ADDITIONAL INSTRUCTIONS.
- FIELD VERIFY ALL PROPOSED AND EXISTING UTILITY LOCATIONS.
- THE CONTRACTOR SHALL COORDINATE ALL WORK AND BE RESPONSIBLE FOR ALL METHODS, MEANS, SEQUENCE, AND PROCEDURES OF THE WORK.

PLANTING NOTES

- STAKE ALL BED LINES AND TREE LOCATIONS FOR THE ENGINEER'S REVIEW PRIOR TO INSTALLATION. ALL PLANTING PROCEDURES ARE SUBJECT TO THE REVIEW OF THE ENGINEER AND THE CONTRACTOR SHALL CORRECT ANY DEFICIENCIES FOUND AT NO ADDITIONAL COST TO THE OWNER.
- SECURE PLANT MATERIAL AS SPECIFIED ON PLANS. IN THE EVENT THAT PLANT MATERIALS SPECIFIED ARE NOT AVAILABLE, CONTRACTOR SHALL SUBMIT ALTERNATES TO ENGINEER FOR APPROVAL PRIOR TO SUBMITTING A BID. NO SUBSTITUTIONS FOR PLANT MATERIALS WILL BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL BY THE ENGINEER.
- VERIFY THAT ALL PLANTING PRODUCTS, PLANT MATERIAL, AND PLANT QUANTITIES DELIVERED TO THE SITE MATCH WHAT IS INDICATED ON THE PLANS AND SPECIFICATIONS.
- PROTECT ALL PLANT MATERIAL DURING DELIVERY TO PREVENT DAMAGE TO ROOT BALLS, TRUNKS, BRANCHES AND THE DESICCATION OF LEAVES. PROTECT ALL PLANT MATERIAL DURING SHIPPING WITH SHADE CLOTH OR SHIP WITH ENCLOSED TRANSPORT. MAINTAIN PROTECTIONS AND HEALTH OF PLANT MATERIAL STORED ON SITE. HANDLE ALL TREES WITH NYLON STRAPS. NO CHAINS OR CABLES ALLOWED. REMOVE UNACCEPTABLE PLANT MATERIAL IMMEDIATELY FROM THE SITE.
- ALL PLANT MATERIAL SHALL BE NURSERY GROWN, WELL FORMED, TRUE TO SPECIES, HARDENED OFF WITH VIGOROUS ROOT SYSTEMS, FULL CROWN AND CANOPIES, AND FREE FROM DISEASE, PESTS AND INSECTS, AND DEFECTS SUCH AS KNOTS, SUN SCALD, WINDBURN, LEAF DISCOLORATION, IRREGULAR BRANCHING OR INJURIES.
- ALL ROOT BALLS SHALL CONFORM TO THE SIZE STANDARDS SET FORTH IN 'AMERICAN STANDARDS FOR NURSERY STOCK'.
- PROVIDE SOURCE INFORMATION AND PLANT SAMPLES OR PHOTOGRAPHS OF EACH PLANT SPECIFIED TO THE ENGINEER FOR COMPLIANCE REVIEW PRIOR TO INSTALLATION.
- ALL PLANT MATERIAL DELIVERED TO THE SITE IS SUBJECT TO THE REVIEW AND ACCEPTANCE OF THE ENGINEER BEFORE, DURING AND AFTER INSTALLATION.
- THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO INSPECT AND/OR SELECT ANY AND ALL PLANT MATERIAL AT THE NURSERY PRIOR TO DELIVERY TO THE SITE.
- TEST FILL ALL TREE PITS, PLANTING BEDS AND RAIN GARDENS WITH WATER, PRIOR TO PLANTING, TO ASSURE PROPER SOIL PERCOLATION. PITS WHICH DO NOT ADEQUATELY DRAIN SHALL BE FURTHER EXCAVATED TO A DEPTH SUFFICIENT FOR DRAINAGE TO OCCUR AND/OR BACKFILLED WITH SUITABLE DRAINAGE GRAVEL. NO ALLOWANCES SHALL BE MADE FOR PLANT MATERIAL LOSS DUE TO IMPROPER DRAINAGE.
- CONTRACTOR SHALL REPLACE DEAD OR DYING PLANT MATERIAL WITH SAME SIZE AND SPECIES AT NO ADDITIONAL COST TO OWNER.
- ALL PLANT MATERIALS, INCLUDING RELOCATED PLANT MATERIAL, SHALL BE PLANTED IN A PROFESSIONAL MANNER TYPICAL TO THE INDUSTRY STANDARDS TO ASSURE COMPLETE SURVIVABILITY OF ALL INSTALLED PLANT MATERIALS AS WELL AS TO PROVIDE AN AESTHETICALLY APPROVED PROJECT. CONTRACTOR SHALL REFER TO THE PLANTING DETAILS FOR MINIMUM SIZE AND WIDTH OF TREE PITS, PLANTING BEDS, RAIN GARDENS, GUYING AND STAKING, MULCHING, AND OTHER PLANTING REQUIREMENTS.
- LAWN AREAS TO PROVIDE A SMOOTH AND CONTINUAL GRADE.
- PLANTING BEDS SHALL HAVE A MINIMUM OF 3" DEPTH OF DOUBLE SHREDDED HARDWOOD MULCH AND SHALL BE CONSISTENT WITH PLANTING DETAILS AND SPECIAL PROVISIONS.
- PLANTING MIX AND/OR TOPSOIL SHALL BE PROVIDED AND BLENDED AS DESCRIBED IN THE PLANTING DETAILS AND SPECIAL PROVISIONS.
- ALL PLANTING AREAS SHALL BE WEED FREE PRIOR TO PLANTING INSTALLATION.
- REMOVE ALL PLANTING AND LANDSCAPE DEBRIS FROM THE PROJECT SITE AND SWEEP AND WASH CLEAN ALL PAVED AND FINISHED SURFACES AFFECTED BY THE LANDSCAPE INSTALLATION.
- THE CONTRACTOR SHALL COORDINATE PLANTING PERIODS WITH INITIAL MAINTENANCE PERIODS TO PROVIDE THE REQUIRED MAINTENANCE FROM THE DATE OF PLANTING COMPLETION. ALL PLANTING SHALL OCCUR DURING ONE OF THE FOLLOWING PERIODS:
 - SPRING PLANTING: APRIL 15 - JUNE 1
 - FALL PLANTING: SEPTEMBER 1 - OCTOBER 15
- FERTILIZER SHALL NOT BE USED WITHIN 50 FEET OF ANY PLANTING BED OR RAIN GARDEN. FERTILIZER SHALL BE CLEANED OFF OF ALL HARD SURFACES AFTER APPLICATION TO ENSURE IT DOES NOT WASH INTO RAIN GARDENS DURING A STORM EVENT.
- SEE TURF ESTABLISHMENT, PERFORMANCE SPECIAL PROVISION FOR LAWN SEEDING INFORMATION.
- REFER TO GENERAL NOTES FOR ADDITIONAL INSTRUCTIONS.
- SEE SHEET 12 FOR PLANTING DETAILS

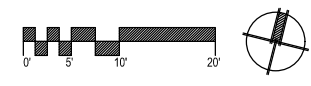
IRRIGATION NOTES

- ALL PRODUCTS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND ACCORDING TO LOCAL BUILDING, ELECTRICAL, AND PLUMBING CODES.
- CONTRACTOR WILL ARRANGE INSPECTIONS FOR IRRIGATION REQUIRED BY THE SPECIAL PROVISION DURING THE COURSE OF CONSTRUCTION. ALL WIRING AND BACKFLOW PREVENTION TO BE PER LOCAL CODE AND AS DESCRIBED IN THE SPECIAL PROVISION.
- INSTALL IRRIGATION MAINS WITH A MINIMUM 1/2" OF COVER BASED ON FINISH GRADES. INSTALL IRRIGATION LATERALS WITH MINIMUM 12" OF COVER BASED ON FINISH GRADES.
- ALL WIRE SPLICES OR CONNECTIONS SHALL BE MADE WITH APPROVED WATERPROOF WIRE CONNECTIONS AND BE IN A VALVE OR SPLICE BOX.
- ALL CONTROL WIRING DOWNSTREAM OF THE CONTROLLER IS TO BE 14 AWG, UL APPROVED DIRECT BURY.
- SEE IRRIGATION SPECIAL PROVISION FOR ADDITIONAL INFORMATION
- SHOP DRAWINGS SHALL BE REQUIRED FOR IRRIGATION PLANS AS DESCRIBED IN THE SPECIAL PROVISIONS, AND SUBMITTED FOR APPROVAL PRIOR TO INSTALLATION.
- THE CONTRACTOR SHALL DESIGN THE SYSTEM TO PROVIDE HEAD TO HEAD COVERAGE IN THE PLANTING AREAS DEFINED ON SHEET 9 OF THIS PLAN SET. THE SYSTEM SHALL ALSO BE CONFIGURED SO THAT IRRIGATION ZONES ARE NOT SHARED BETWEEN THE DIFFERENT PLANTING AND LAWN AREAS (I.E. RAIN GARDEN AREAS SHALL NOT BE COMBINED WITH OTHER PLANTING BEDS AND/OR LAWN AREAS, AND PLANTING BEDS SHALL NOT BE COMBINED WITH RAIN GARDENS AND/OR LAWN AREAS.)
- ALL IRRIGATION SHALL BE PAID AS "UNDERGROUND AUTOMATIC IRRIGATION SYSTEM".

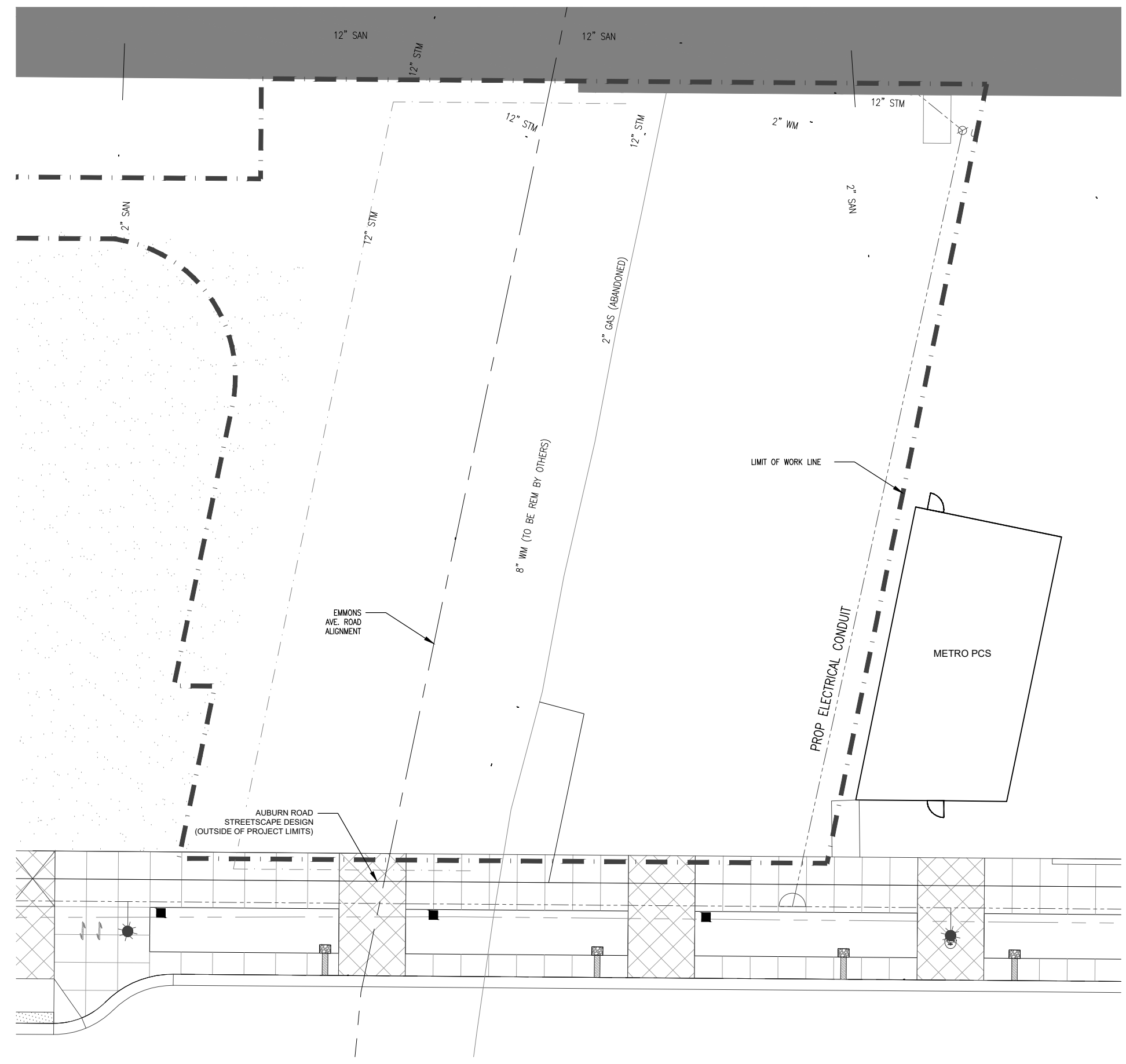


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CITY OF ROCHESTER HILLS
AUBURN ROAD RECONSTRUCTION
EMMONS AVENUE PLAZA - LANDSCAPE NOTES



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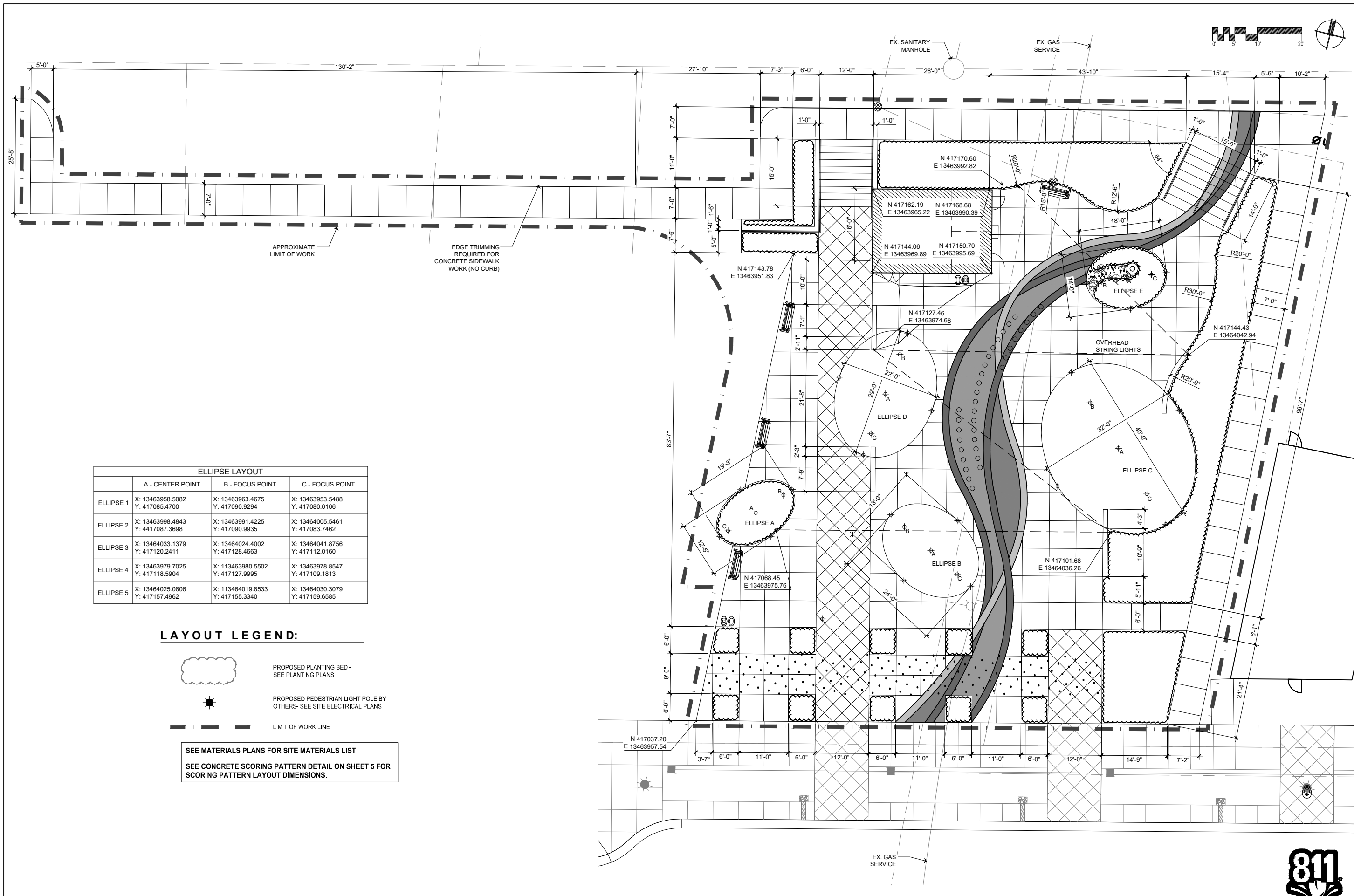
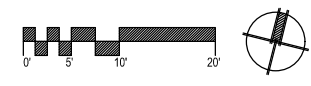


REVISIONS:

DATE	PROJ NUMBER	LA	PROJ MGR	CADD	COUNTY	CITY/VILLAGE/TOWNSHIP	HORIZ DATUM	VERT DATUM	SCALE	H:	V:
11/12/2018	0180-07-0020	BW	M.L.		Oakland	Rochester Hills					

CITY OF ROCHESTER HILLS
AUBURN ROAD RECONSTRUCTION
EXISTING CONDITIONS





ELLIPSE LAYOUT			
	A - CENTER POINT	B - FOCUS POINT	C - FOCUS POINT
ELLIPSE 1	X: 13463958.5082 Y: 417085.4700	X: 13463963.4675 Y: 417090.9294	X: 13463953.5488 Y: 417080.0106
ELLIPSE 2	X: 13463998.4843 Y: 4417087.3698	X: 13463991.4225 Y: 417090.9935	X: 13464005.5461 Y: 417083.7462
ELLIPSE 3	X: 13464033.1379 Y: 417120.2411	X: 13464024.4002 Y: 417128.4663	X: 13464041.8756 Y: 417112.0160
ELLIPSE 4	X: 13463979.7025 Y: 417118.5904	X: 113463980.5502 Y: 417127.9995	X: 13463978.8547 Y: 417109.1813
ELLIPSE 5	X: 13464025.0806 Y: 417157.4962	X: 113464019.8533 Y: 417155.3340	X: 13464030.3079 Y: 417159.6585

LAYOUT LEGEND:

- PROPOSED PLANTING BED - SEE PLANTING PLANS
- PROPOSED PEDESTRIAN LIGHT POLE BY OTHERS- SEE SITE ELECTRICAL PLANS
- LIMIT OF WORK LINE

SEE MATERIALS PLANS FOR SITE MATERIALS LIST
SEE CONCRETE SCORING PATTERN DETAIL ON SHEET 5 FOR SCORING PATTERN LAYOUT DIMENSIONS.

REVISIONS:

NO.	DATE	DESCRIPTION

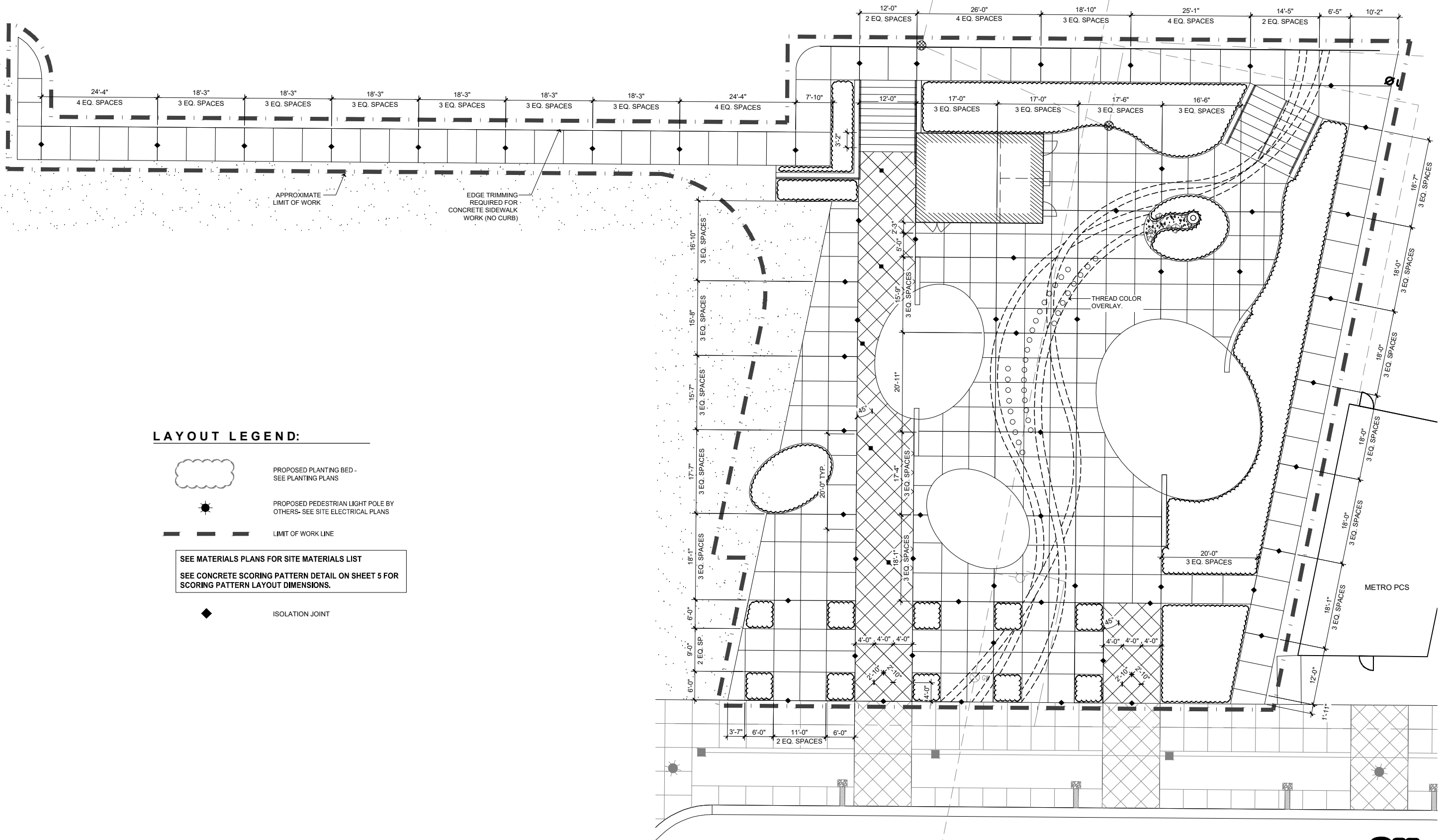
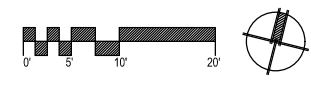
DATE	PROJ NUMBER	LA	PROJ INCH	CADD	COUNTY	CITY/VILLAGE/TOWNSHIP	SCALE	H:	V:
11/12/2018	0180-17-0020	BW	M		Oakland	Rochester Hills			

HORIZ DATUM: VERT DATUM:

CITY OF ROCHESTER HILLS
AUBURN ROAD RECONSTRUCTION
EMMONS AVENUE PLAZA - LAYOUT PLAN



Know what's below.
Call before you dig.



LAYOUT LEGEND:

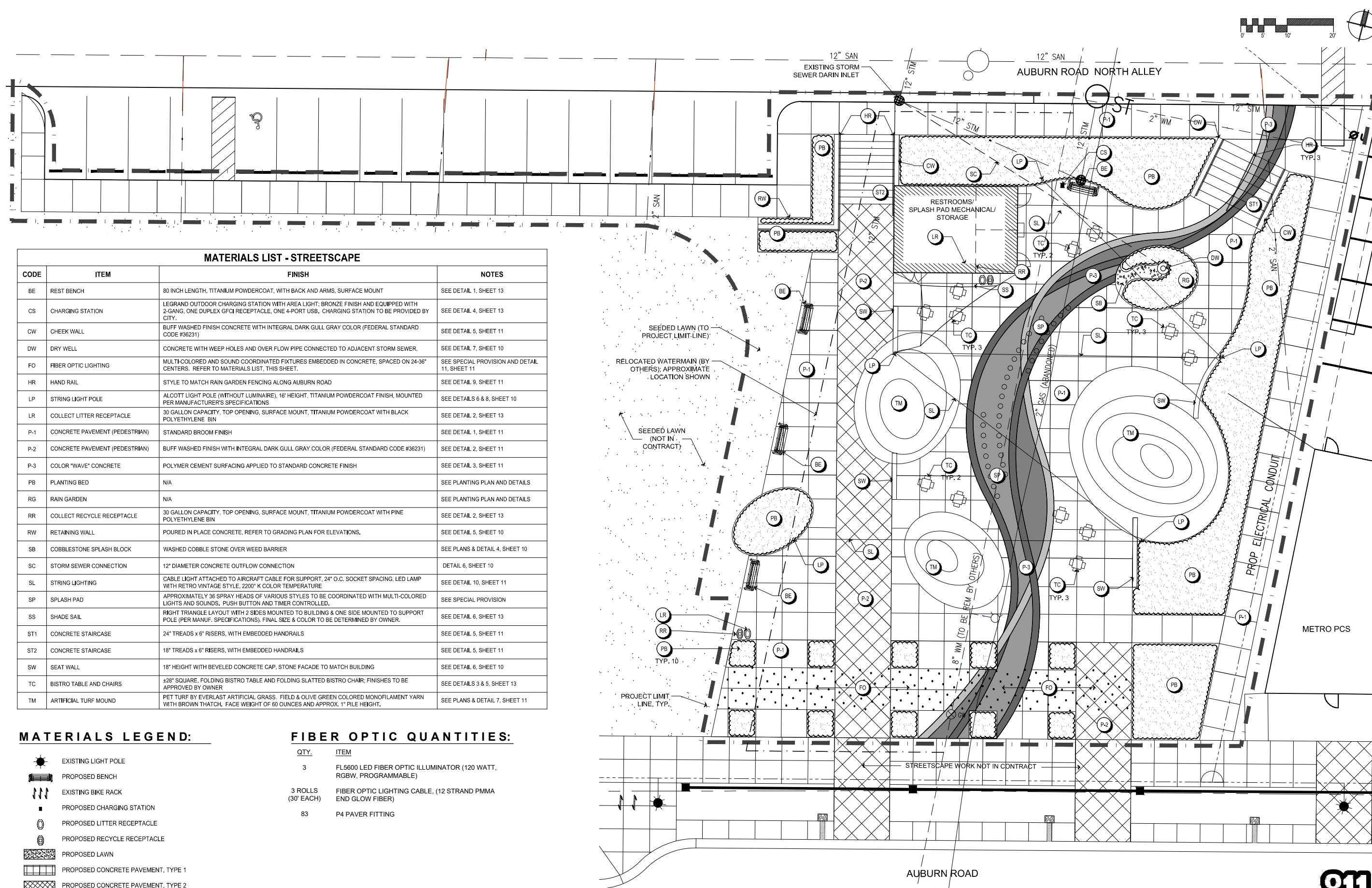
- PROPOSED PLANTING BED - SEE PLANTING PLANS
 - PROPOSED PEDESTRIAN LIGHT POLE BY OTHERS - SEE SITE ELECTRICAL PLANS
 - LIMIT OF WORK LINE
 - ISOLATION JOINT
- SEE MATERIALS PLANS FOR SITE MATERIALS LIST
SEE CONCRETE SCORING PATTERN DETAIL ON SHEET 5 FOR SCORING PATTERN LAYOUT DIMENSIONS.

REVISIONS: _____
 HORIZ. DATUM: _____
 VERT. DATUM: _____
 SCALE: _____
 CITY/VILLAGE/TOWNSHIP: Rochester Hills
 COUNTY: Oakland
 CAD: _____
 PROJ. NO.: _____
 PROJ. MGR.: _____
 LA: _____
 DATE: 11/22/21
 SHEET: 018-07-000

CITY OF ROCHESTER HILLS
 AUBURN ROAD RECONSTRUCTION
 SCORING PLAN



Know what's below.
Call before you dig.



MATERIALS LIST - STREETSCAPE			
CODE	ITEM	FINISH	NOTES
BE	REST BENCH	80 INCH LENGTH, TITANIUM POWDERCOAT, WITH BACK AND ARMS, SURFACE MOUNT	SEE DETAIL 1, SHEET 13
CS	CHARGING STATION	LEGRAND OUTDOOR CHARGING STATION WITH AREA LIGHT, BRONZE FINISH AND EQUIPPED WITH 2-GANG, ONE DUPLEX GFCI RECEPTACLE, ONE 4-PORT USB, CHARGING STATION TO BE PROVIDED BY CITY.	SEE DETAIL 4, SHEET 13
CW	CHEEK WALL	BUFF WASHED FINISH CONCRETE WITH INTEGRAL DARK GULL GRAY COLOR (FEDERAL STANDARD CODE #36231)	SEE DETAIL 5, SHEET 11
DW	DRY WELL	CONCRETE WITH WEEP HOLES AND OVER FLOW PIPE CONNECTED TO ADJACENT STORM SEWER.	SEE DETAIL 7, SHEET 10
FO	FIBER OPTIC LIGHTING	MULTI-COLORED AND SOUND COORDINATED FIXTURES EMBEDDED IN CONCRETE, SPACED ON 24-36" CENTERS. REFER TO MATERIALS LIST, THIS SHEET.	SEE SPECIAL PROVISION AND DETAIL 11, SHEET 11
HR	HAND RAIL	STYLE TO MATCH RAIN GARDEN FENCING ALONG AUBURN ROAD	SEE DETAIL 9, SHEET 11
LP	STRING LIGHT POLE	ALCOTT LIGHT POLE (WITHOUT LUMINAIRE), 16' HEIGHT, TITANIUM POWDERCOAT FINISH, MOUNTED PER MANUFACTURER'S SPECIFICATIONS	SEE DETAILS 6 & 8, SHEET 10
LR	COLLECT LITTER RECEPTACLE	30 GALLON CAPACITY, TOP OPENING, SURFACE MOUNT, TITANIUM POWDERCOAT WITH BLACK POLYETHYLENE BIN	SEE DETAIL 2, SHEET 13
P-1	CONCRETE PAVEMENT (PEDESTRIAN)	STANDARD BROOM FINISH	SEE DETAIL 1, SHEET 11
P-2	CONCRETE PAVEMENT (PEDESTRIAN)	BUFF WASHED FINISH WITH INTEGRAL DARK GULL GRAY COLOR (FEDERAL STANDARD CODE #36231)	SEE DETAIL 2, SHEET 11
P-3	COLOR "WAVE" CONCRETE	POLYMER CEMENT SURFACING APPLIED TO STANDARD CONCRETE FINISH	SEE DETAIL 3, SHEET 11
PB	PLANTING BED	N/A	SEE PLANTING PLAN AND DETAILS
RG	RAIN GARDEN	N/A	SEE PLANTING PLAN AND DETAILS
RR	COLLECT RECYCLE RECEPTACLE	30 GALLON CAPACITY, TOP OPENING, SURFACE MOUNT, TITANIUM POWDERCOAT WITH PINE POLYETHYLENE BIN	SEE DETAIL 2, SHEET 13
RW	RETAINING WALL	POURED IN PLACE CONCRETE, REFER TO GRADING PLAN FOR ELEVATIONS.	SEE DETAIL 5, SHEET 10
SB	COBBLESTONE SPLASH BLOCK	WASHED COBBLE STONE OVER WEED BARRIER	SEE PLANS & DETAIL 4, SHEET 10
SC	STORM SEWER CONNECTION	12" DIAMETER CONCRETE OUTFLOW CONNECTION	DETAIL 6, SHEET 10
SL	STRING LIGHTING	CABLE LIGHT ATTACHED TO AIRCRAFT CABLE FOR SUPPORT, 24" O.C. SOCKET SPACING, LED LAMP WITH RETRO VINTAGE STYLE, 2200° K COLOR TEMPERATURE	SEE DETAIL 10, SHEET 11
SP	SPLASH PAD	APPROXIMATELY 36 SPRAY HEADS OF VARIOUS STYLES TO BE COORDINATED WITH MULTI-COLORED LIGHTS AND SOUNDS, PUSH BUTTON AND TIMER CONTROLLED.	SEE SPECIAL PROVISION
SS	SHADE SAIL	RIGHT TRIANGLE LAYOUT WITH 2 SIDES MOUNTED TO BUILDING & ONE SIDE MOUNTED TO SUPPORT POLE (PER MANUF. SPECIFICATIONS), FINAL SIZE & COLOR TO BE DETERMINED BY OWNER.	SEE DETAIL 6, SHEET 13
ST1	CONCRETE STAIRCASE	24" TREADS x 6" RISERS, WITH EMBEDDED HANDRAILS	SEE DETAIL 5, SHEET 11
ST2	CONCRETE STAIRCASE	18" TREADS x 6" RISERS, WITH EMBEDDED HANDRAILS	SEE DETAIL 5, SHEET 11
SW	SEAT WALL	18" HEIGHT WITH BEVELED CONCRETE CAP, STONE FACADE TO MATCH BUILDING	SEE DETAIL 6, SHEET 10
TC	BISTRO TABLE AND CHAIRS	28" SQUARE, FOLDING BISTRO TABLE AND FOLDING SLATTED BISTRO CHAIR, FINISHES TO BE APPROVED BY OWNER	SEE DETAILS 3 & 5, SHEET 13
TM	ARTIFICIAL TURF MOUND	PET TURF BY EVERLAST ARTIFICIAL GRASS. FIELD & OLIVE GREEN COLORED MONOFILAMENT YARN WITH BROWN THATCH, FACE WEIGHT OF 60 OUNCES AND APPROX. 1" PILE HEIGHT.	SEE PLANS & DETAIL 7, SHEET 11

MATERIALS LEGEND:

- EXISTING LIGHT POLE
- PROPOSED BENCH
- EXISTING BIKE RACK
- PROPOSED CHARGING STATION
- PROPOSED LITTER RECEPTACLE
- PROPOSED RECYCLE RECEPTACLE
- PROPOSED LAWN
- PROPOSED CONCRETE PAVEMENT, TYPE 1
- PROPOSED CONCRETE PAVEMENT, TYPE 2
- PROPOSED POLYMER CEMENT SURFACING
- PROPOSED FIBER OPTIC LIGHTING
- PROPOSED PLANTING BED

FIBER OPTIC QUANTITIES:

QTY.	ITEM
3	FL5600 LED FIBER OPTIC ILLUMINATOR (120 WATT, RGBW, PROGRAMMABLE)
3 ROLLS (30' EACH)	FIBER OPTIC LIGHTING CABLE, (12 STRAND PMMA END GLOW FIBER)
83	P4 PAVER FITTING

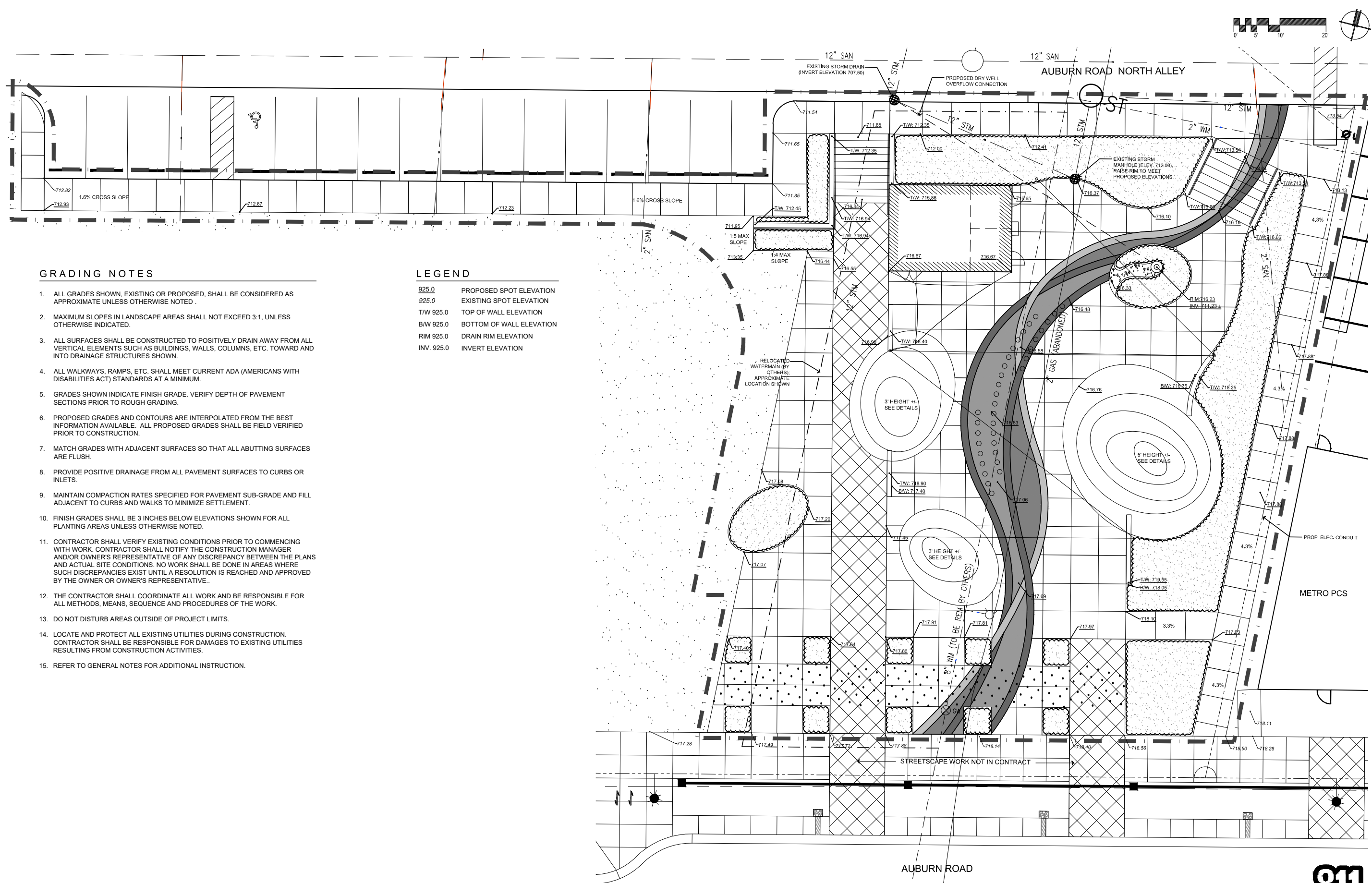
REVISIONS:

CITY/VILLAGE/TOWNSHIP: Rochester Hills
COUNTY: Oakland
SCALE: 1" = 10'-0"
DATE: 11/12/2018
PROJECT NUMBER: 0180-17-0020
LA: BW
PROJ. INCH: M.L.
CADD: M.L.
SHEET: 6
OF 17

CITY OF ROCHESTER HILLS
AUBURN ROAD RECONSTRUCTION
EMMONS AVENUE PLAZA - MATERIALS PLAN



Know what's below.
Call before you dig.

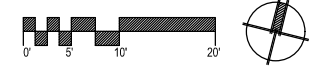


GRADING NOTES

- ALL GRADES SHOWN, EXISTING OR PROPOSED, SHALL BE CONSIDERED AS APPROXIMATE UNLESS OTHERWISE NOTED.
- MAXIMUM SLOPES IN LANDSCAPE AREAS SHALL NOT EXCEED 3:1, UNLESS OTHERWISE INDICATED.
- ALL SURFACES SHALL BE CONSTRUCTED TO POSITIVELY DRAIN AWAY FROM ALL VERTICAL ELEMENTS SUCH AS BUILDINGS, WALLS, COLUMNS, ETC. TOWARD AND INTO DRAINAGE STRUCTURES SHOWN.
- ALL WALKWAYS, RAMPS, ETC. SHALL MEET CURRENT ADA (AMERICANS WITH DISABILITIES ACT) STANDARDS AT A MINIMUM.
- GRADES SHOWN INDICATE FINISH GRADE. VERIFY DEPTH OF PAVEMENT SECTIONS PRIOR TO ROUGH GRADING.
- PROPOSED GRADES AND CONTOURS ARE INTERPOLATED FROM THE BEST INFORMATION AVAILABLE. ALL PROPOSED GRADES SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
- MATCH GRADES WITH ADJACENT SURFACES SO THAT ALL ABUTTING SURFACES ARE FLUSH.
- PROVIDE POSITIVE DRAINAGE FROM ALL PAVEMENT SURFACES TO CURBS OR INLETS.
- MAINTAIN COMPACTION RATES SPECIFIED FOR PAVEMENT SUB-GRADE AND FILL ADJACENT TO CURBS AND WALKS TO MINIMIZE SETTLEMENT.
- FINISH GRADES SHALL BE 3 INCHES BELOW ELEVATIONS SHOWN FOR ALL PLANTING AREAS UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WITH WORK. CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER AND/OR OWNER'S REPRESENTATIVE OF ANY DISCREPANCY BETWEEN THE PLANS AND ACTUAL SITE CONDITIONS. NO WORK SHALL BE DONE IN AREAS WHERE SUCH DISCREPANCIES EXIST UNTIL A RESOLUTION IS REACHED AND APPROVED BY THE OWNER OR OWNER'S REPRESENTATIVE.
- THE CONTRACTOR SHALL COORDINATE ALL WORK AND BE RESPONSIBLE FOR ALL METHODS, MEANS, SEQUENCE AND PROCEDURES OF THE WORK.
- DO NOT DISTURB AREAS OUTSIDE OF PROJECT LIMITS.
- LOCATE AND PROTECT ALL EXISTING UTILITIES DURING CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES TO EXISTING UTILITIES RESULTING FROM CONSTRUCTION ACTIVITIES.
- REFER TO GENERAL NOTES FOR ADDITIONAL INSTRUCTION.

LEGEND

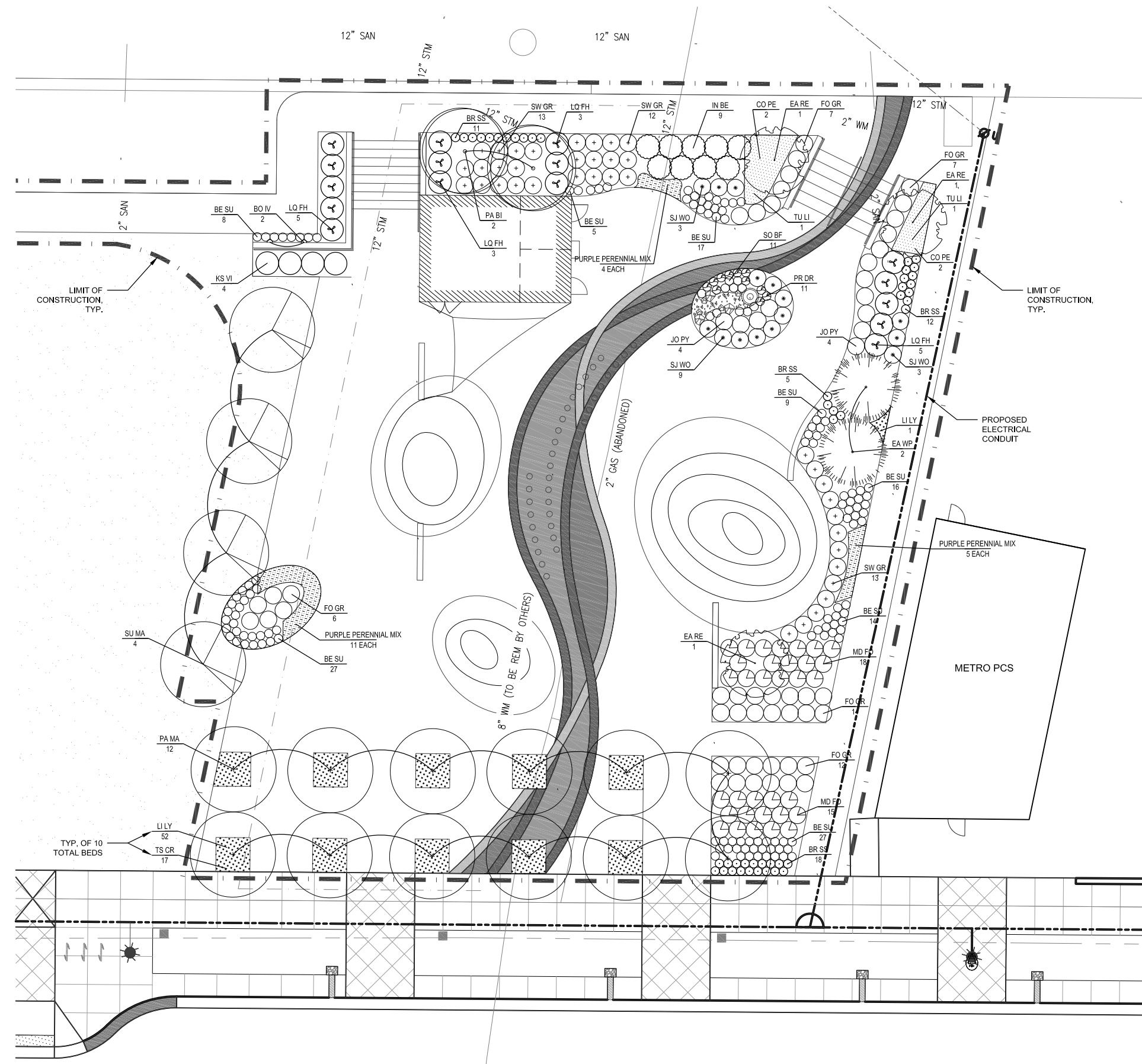
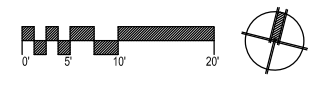
925.0	PROPOSED SPOT ELEVATION
925.0	EXISTING SPOT ELEVATION
T/W 925.0	TOP OF WALL ELEVATION
B/W 925.0	BOTTOM OF WALL ELEVATION
RIM 925.0	DRAIN RIM ELEVATION
INV. 925.0	INVERT ELEVATION



Know what's below.
Call before you dig.

DATE: 11/12/2018
PROJECT NUMBER: 0180-17-0020
SHEET: 7
CITY/VILLAGE/TOWNSHIP: Rochester Hills
COUNTY: Oakland
CADD: M.L.PROJ. INCH: LA
SCALE: H: V:
HORIZ. DATUM: VERT. DATUM:
REVISIONS:

CITY OF ROCHESTER HILLS
AUBURN ROAD RECONSTRUCTION
EMMONS AVENUE PLAZA - GRADING PLAN



PLANT LIST

PLANT LIST: TREES					
CODE	COMMON NAME	LATIN NAME	INSTALL SIZE	CONDITION	SPACING
PA MA	PAPERBARK MAPLE	<i>Acer griseum</i>	3" CAL	B&B	AS PER PLAN
SU MA	SUGAR MAPLE	<i>Acer saccharum</i>	3" CAL	B&B	20' O.C.
PA BI	RENAISSANCE REFLECTION PAPER BIRCH	<i>Betula papyrifera 'Renci'</i>	10' MULTI-STEM	B&B	AS PER PLAN
EA RE	MINNESOTA STRAIN EASTERN REDBUD	<i>Cercis canadensis 'Northern Strain'</i>	8' MULTI-STEM	B&B	AS PER PLAN
EA WP	EASTERN WHITE PINE	<i>Pinus Strobus</i>	12' HT.	B&B	AS PER PLAN

PLANT LIST: SHRUBS & ORNAMENTAL GRASSES					
CODE	COMMON NAME	LATIN NAME	INSTALL SIZE	CONDITION	SPACING
MD FO	BLUE MIST DWARF FOTHERGILLA	<i>Fothergilla gardenii 'Blue Mist'</i>	#3	CONT.	36" O.C.
LQ FH	LITTLE QUICK FIRE HARDY HYDRANGEA	<i>Hydrangea paniculata 'SMHPLQF'</i>	#3	CONT.	AS PER PLAN
SJ WO	KALM'S ST. JOHN'S WORT	<i>Hypericum kalmianum</i>	#3	CONT.	36" O.C.
IN BE	INKBERRY	<i>Ilex glabra</i>	#3	CONT.	48" O.C.
SW GR	SHENANDOAH SWITCH GRASS	<i>Panicum virgatum 'Shenandoah'</i>	#1	CONT.	36" O.C.
FO GR	FOUNTAIN GRASS	<i>Pennisetum alopecuroides</i>	#1	CONT.	36" O.C.
PR DR	PRAIRIE DROPSEED	<i>Sporobolus heterolepis</i>	#1	CONT.	AS PER PLAN
KS VI	KOREAN SPICE VIBURNUM	<i>Viburnum carlesii</i>	#5	B&B	48" O.C.

PLANT LIST: PERENNIALS, GROUNDCOVER & BULBS					
CODE	COMMON NAME	LATIN NAME	INSTALL SIZE	CONDITION	SPACING
*GL OR	GLOBEMASTER ORNAMENTAL ONION	<i>Allium 'Globemaster'</i>	#1	CONT.	18" O.C.
**TS CR	TRICOLOR SNOW CROCUS	<i>Crocus sieberi 'Tricolor'</i>	Bulb	25-PACKAGE	12" O.C.
*RG CO	RUBY GIANT PURPLE CONEFLOWER	<i>Echinacea purpurea 'Ruby Giant'</i>	#1	CONT.	18" O.C.
JO PY	CHOCOLATE JOE PYE WEED	<i>Eutrochium rugosum 'Chocolate'</i>	#1	CONT.	36" O.C.
SO BF	SOUTHERN BLUE FLAG	<i>Iris virginica</i>	#1	CONT.	AS PER PLAN
*BL ST	BLAZING STAR	<i>Liatris spicata</i>	#1	CONT.	18" O.C.
LI LY	SILVERY SUNPROOF LILY-TURF	<i>Liriope muscari 'Silvery Sunproof'</i>	Plug	8-CELL FLAT	12" O.C.
BO IV	FENWAY PARK BOSTON IVY	<i>Parthenocissus tricuspidata 'Veitchii'</i>	#1	CONT.	6' O.C.
BE SU	GOLDSTURM BLACK-EYED SUSAN	<i>Rudbeckia fulgida var. 'Goldsturm'</i>	#1	CONT.	18" O.C.
BR SS	BRILLIANT SEDUM STONECROP	<i>Sedum spectabile 'Brilliant'</i>	#1	CONT.	18" O.C.
**TU LI	APPLE BLOSSOM TULIP MIXTURE	<i>Tulip triumph</i>	Bulb	70-PACKAGE	12" O.C.
CO PE	BOWLES' COMMON PERIWINKLE	<i>Vinca minor 'Bowles'</i>	Plug	36-CELL FLAT	12" O.C.

*PLANTS WITH ONE (1) ASTERISK ARE CALLED OUT ON PLAN SHEET AS "PURPLE PERENNIAL MIX." THEY SHALL BE SPACED 18" O.C. IN A RANDOM FASHION WITHIN HATCH SHOWN ON PLANTING PLAN. EQUAL QUANTITIES OF EACH SPECIES WILL BE SPECIFIED IN QUANTITIES.

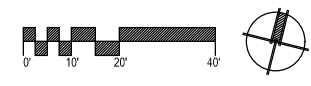
*GROUNDCOVER WITH TWO (2) ASTERISKS ARE PROPOSED AREAS THAT WILL ALSO INCLUDE EITHER CROCUS OR TULIP PLANTINGS. SEE PLAN CALLOUTS FOR MORE INFORMATION.

EMMONS PLAZA PLANTING PLAN

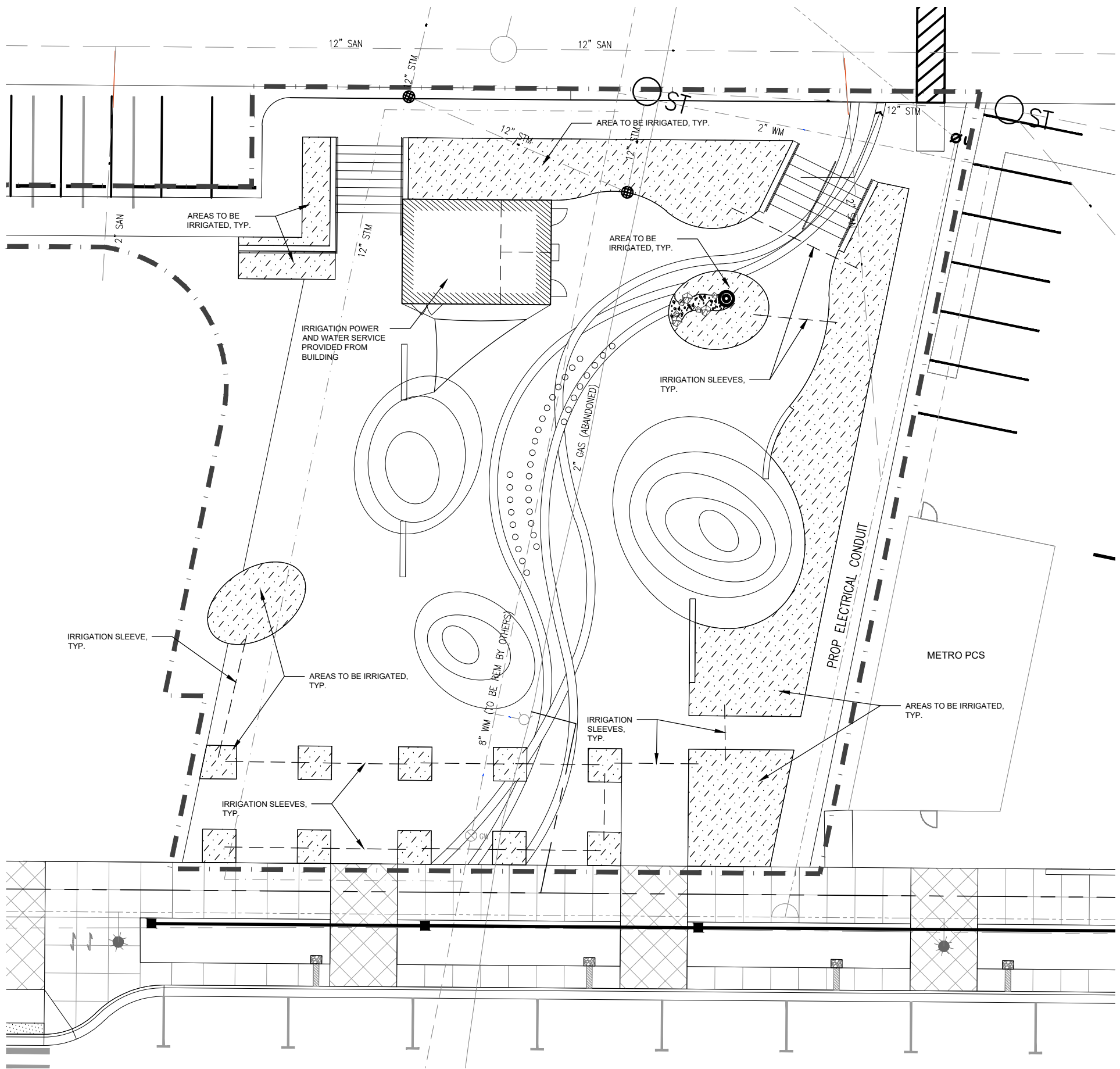


DATE: 11/12/2018 09:00-17:00:20
 PROJ. NO.: 090-17-020
 COUNTY: Oakland
 CITY/VILLAGE/TOWNSHIP: Rochester Hills
 SCALE: V.
 HORIZ. DATUM: V.
 VERT. DATUM: V.
 REVISIONS:

CITY OF ROCHESTER HILLS
 AUBURN ROAD RECONSTRUCTION
 EMMONS AVENUE PLAZA - PLANTING PLAN



OHM
 ARCHITECTS ENGINEERS PLANNERS
 34000 Plymouth Road
 Livonia, MI 48150
 P (734) 522-6711 | F (734) 522-6427
 OHM-ADVISORS.COM



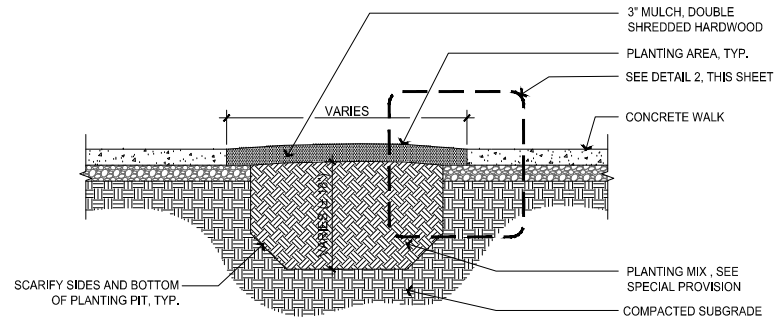
IRRIGATION LEGEND:

- AREA TO BE IRRIGATED
- 4" SCH. 40 PVC SLEEVE

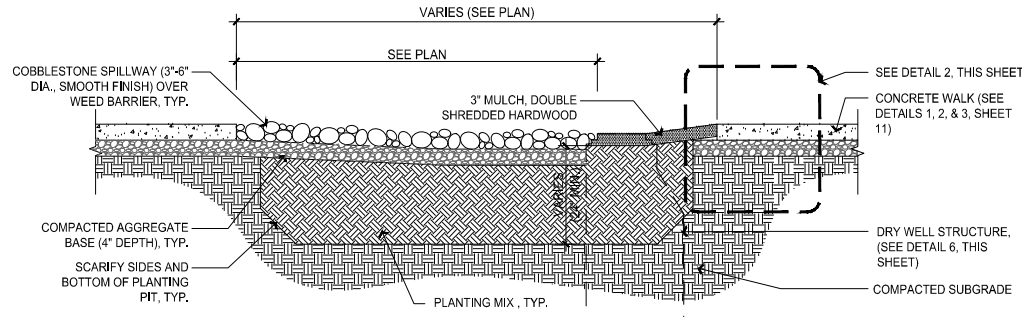
REVISIONS:

DATE: 11/22/18
 PROJ NUMBER: 018-07-000
 COUNTY: Oakland
 CITY/VILLAGE/TOWNSHIP: Rochester Hills
 SCALE: V:
 H:
 HORIZ DATUM: VERT DATUM:

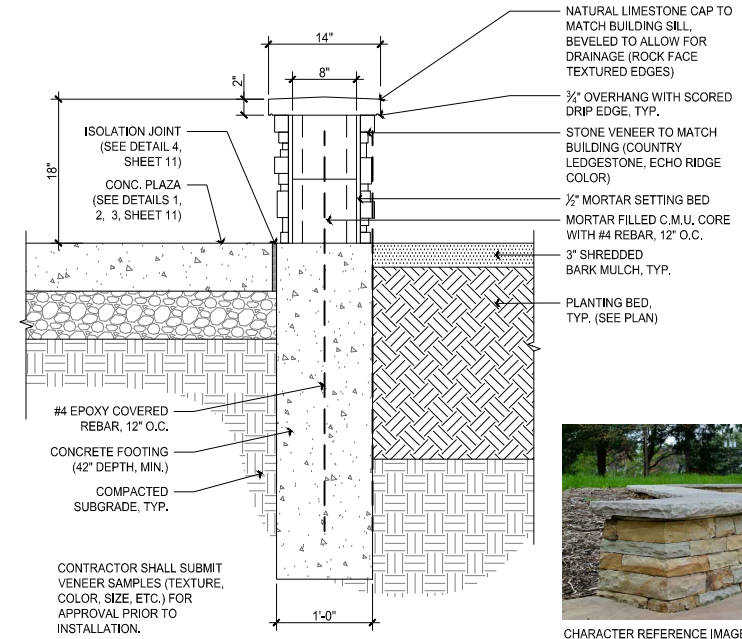
**CITY OF ROCHESTER HILLS
 AUBURN ROAD RECONSTRUCTION
 EMMONS AVENUE PLAZA - IRRIGATION PLAN**



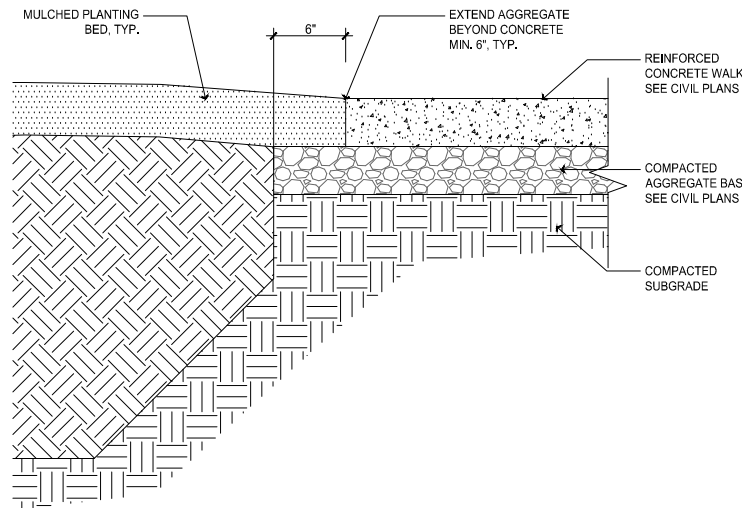
1 FLUSH PLANTER SECTION
SCALE: 1/2" = 1'-0"



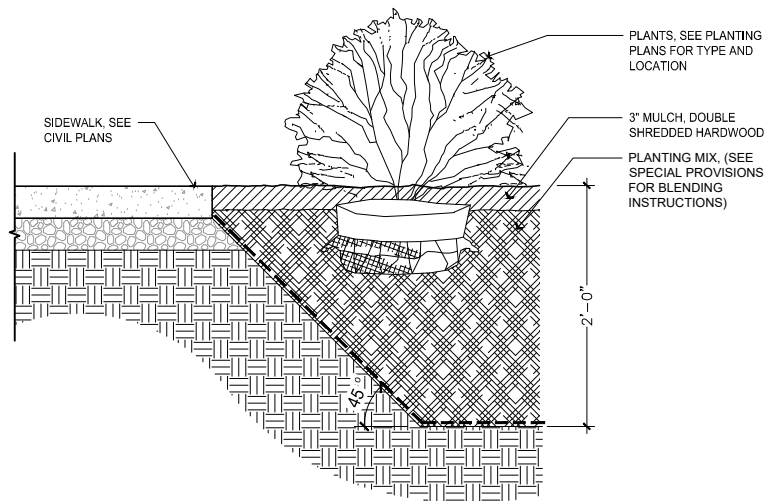
4 FLUSH RAIN GARDEN SECTION
SCALE: 1/2" = 1'-0"



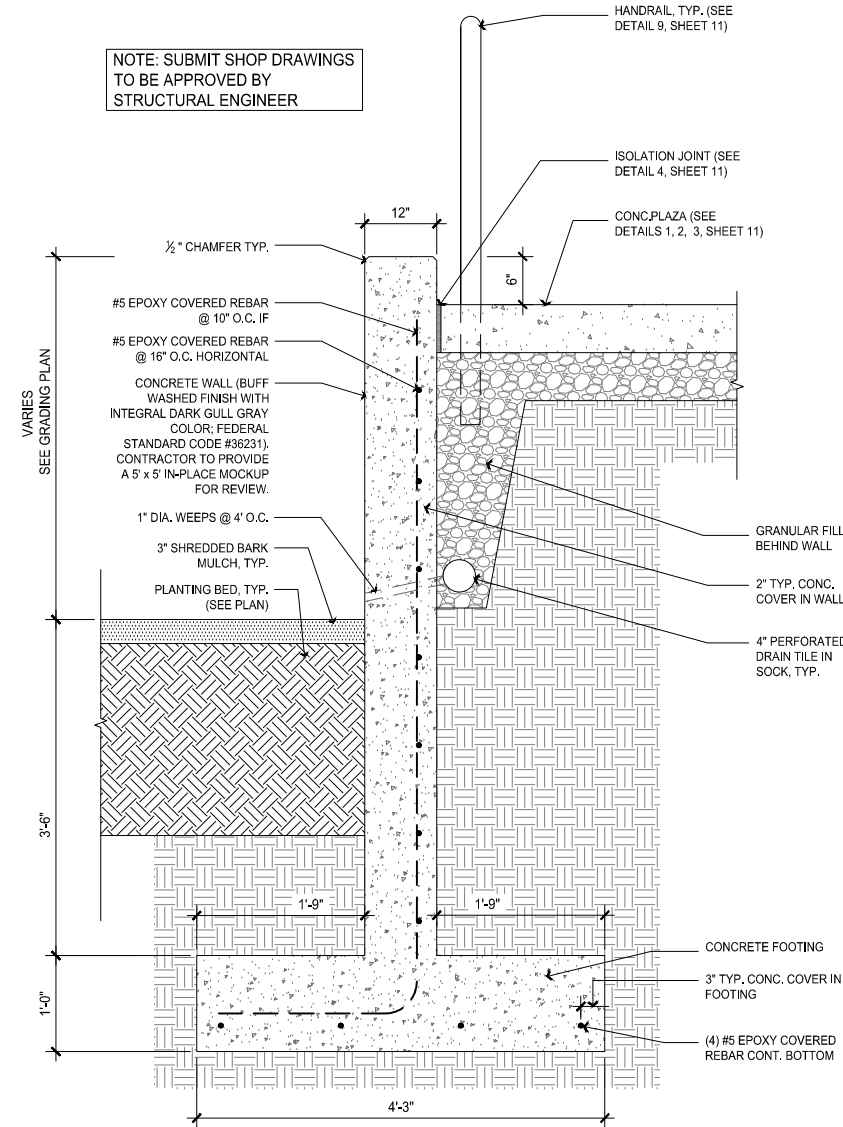
6 SEAT WALL DETAIL
SCALE: 1" = 1'-0"



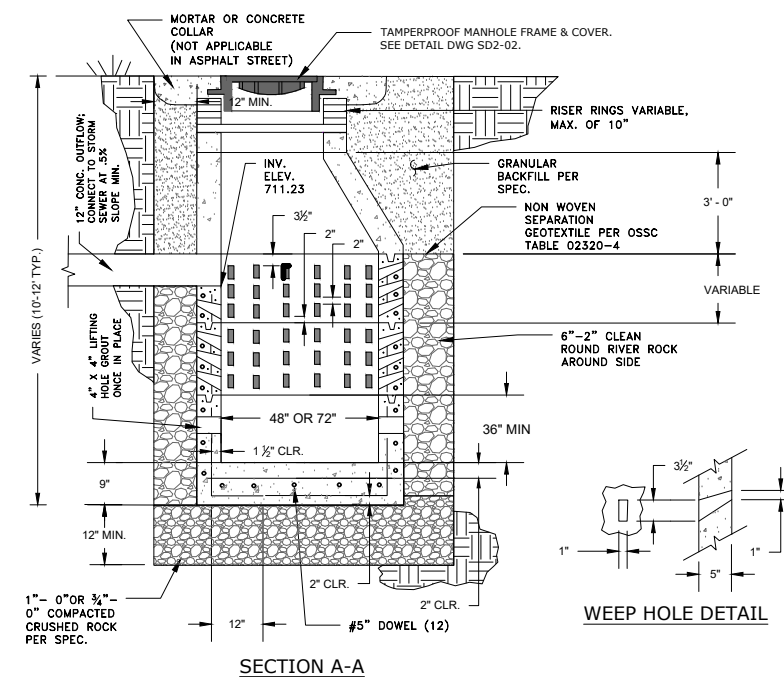
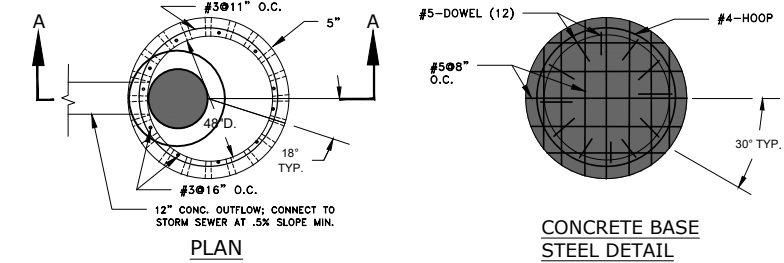
2 CONCRETE PLANTER & BIO-SWALE EDGE (FLUSH)
SCALE: 1 1/2" = 1'-0"



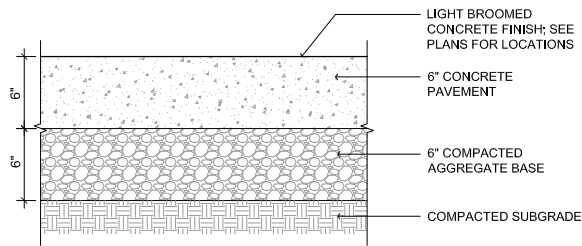
3 EXCAVATION FOR SOIL AT PAVEMENT EDGE
SCALE: 1" = 1'-0"



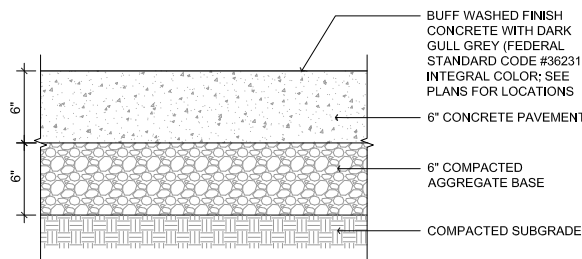
5 RETAINING WALL DETAIL
SCALE: 1" = 1'-0"



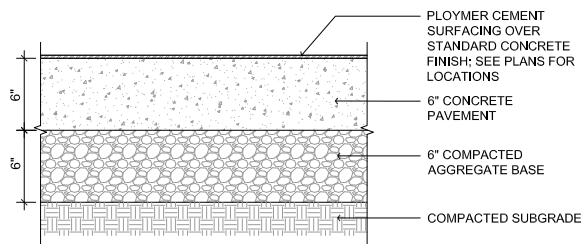
7 DRY WELL STRUCTURE
SCALE: 1" = 1'-0"



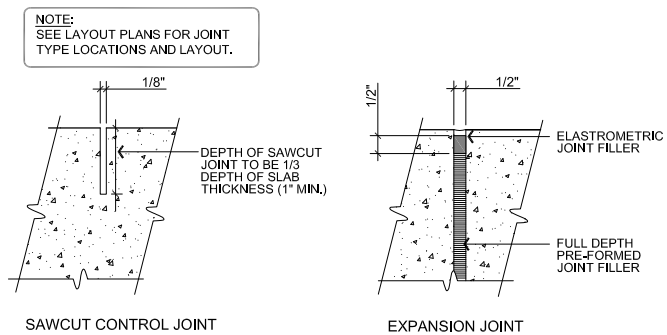
1 CONCRETE PAVEMENT
SCALE: 1-1/2" = 1'-0"



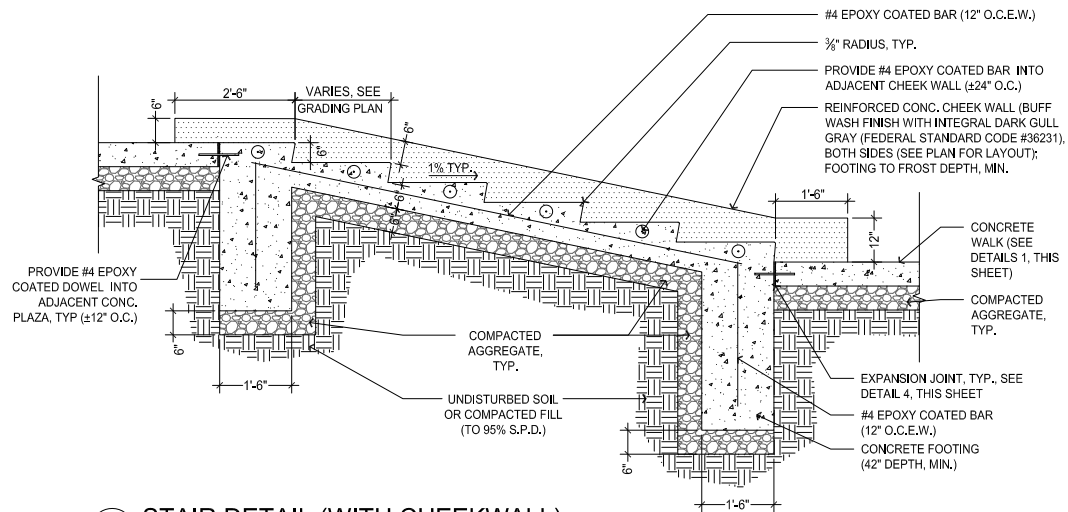
2 DECORATIVE CONCRETE PAVEMENT
SCALE: 1-1/2" = 1'-0"



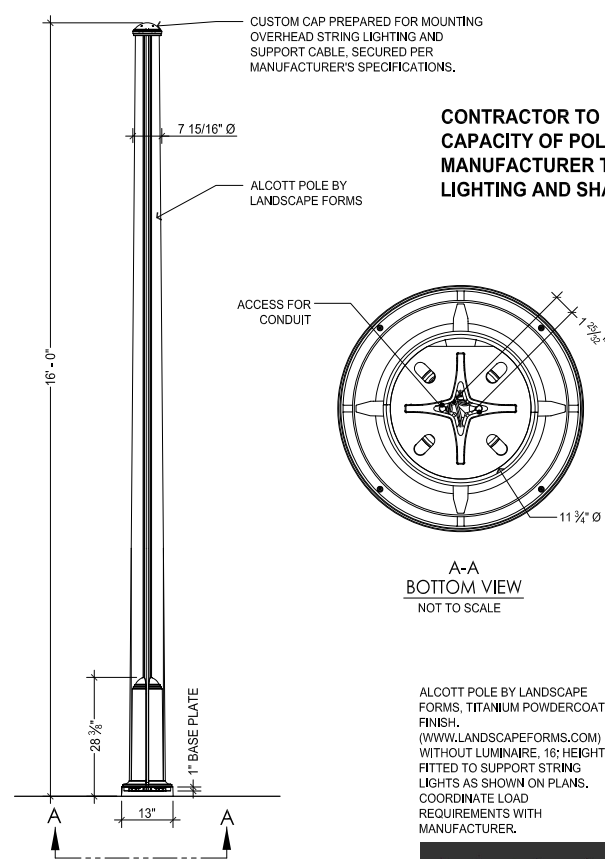
3 DECORATIVE POLYMER SURFACING
SCALE: 1-1/2" = 1'-0"



4 EXPANSION AND CONTROL JOINTS
SCALE: 3" = 1'-0"

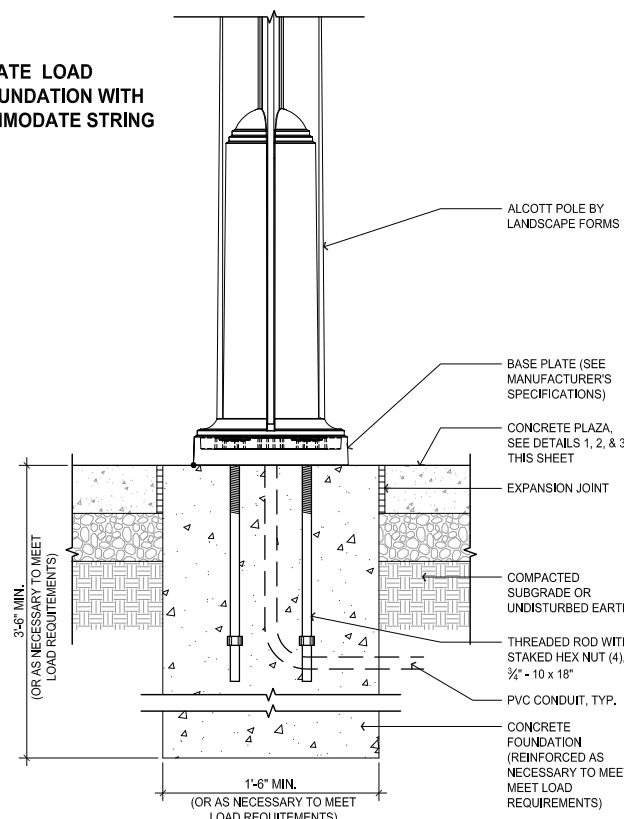


5 STAIR DETAIL (WITH CHEEKWALL)
SCALE: 1/2" = 1'-0"

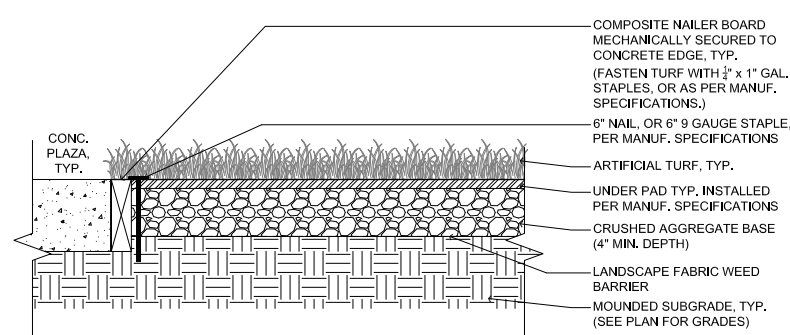
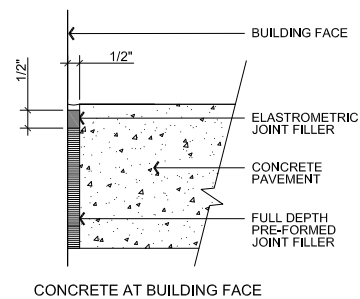


6 SUPPORT POLE DETAIL
SCALE: 1/2" = 1'-0"

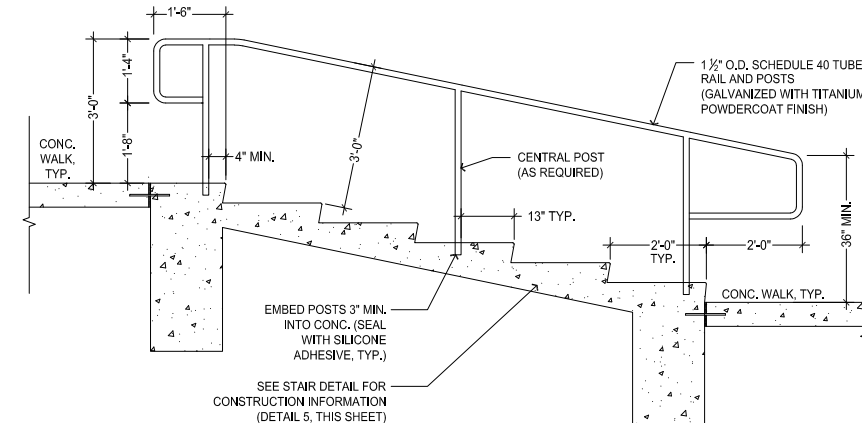
CONTRACTOR TO COORDINATE LOAD CAPACITY OF POLE AND FOUNDATION WITH MANUFACTURER TO ACCOMMODATE STRING LIGHTING AND SHADE SAIL.



8 SUPPORT POLE FOUNDATION DETAIL
SCALE: 1-1/2" = 1'-0"



7 ARTIFICIAL TURF DETAIL
SCALE: 1 1/2" = 1'-0"



- NOTES:**
- HANDRAIL TO MEET CURRENT ADA STANDARDS.
 - CONTRACTOR SHALL SUBMIT COLOR SAMPLES AND SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION.
 - REFER TO STAIR DETAIL (DETAIL 5, THIS SHEET) FOR TREAD AND RISER DIMENSIONS.

9 HANDRAIL DETAIL
SCALE: 1/2" = 1'-0"

Key Features

- Perfect for festoon mounting and garden lighting, tought or swayed.
- Sockets available in E26 medium base and GU10 base
- Lamp spacing available in 12" OC and 24" OC complete with IP44 rings.
- Provided with one Male 2 prong 120V AC plug with 3ft lead and one female 2 box 120V AC socket with 2ft lead per spool.
- Max continuous length: 1800W max per continuous uninterconnected spools.
- Standard spool length: 48' max per min 12" OC, 48' max per min 24" OC

Line voltage cable light
for indoor and outdoor lighting applications.

Details

Spacing: 12" or 24" OC Socket Spacing

Lamp Type: For use with DenaliLED Stargazer or DenaliLED Techno Vintage Slaters (see page 2)

Wattage: E26 Medium Base - 25W max socket, GU10 Base - 5W max socket

Voltage: 120V AC 60Hz

Installation: Attach to nailing cable provided by others and to be secured with zip ties. GFI installation only.

Weight: E26 Medium Base Cable Only: 12" OC = 0.15Lbs/ft, 24" OC = 0.15Lbs/ft, GU10 Base Cable Only: 12" OC = 0.2Lbs/ft, 24" OC = 0.15Lbs/ft

IP Rating: P-44

Listing: eULus

Warranty: 3 year warranty

Ordering Guide

PRODUCT CODE	TYPE	SOCKET	SPACING	CABLE FINISH	LAMPS
BLD - DenaliLED	CL - Cable Light	MD - E26 Medium Base	12 - 12" OC	BL - Black	
		SU - GU10 Base	24 - 24" OC		

Lamps

Details

Lamp Type	Base	Lamp Life	25,000 hours at L70
DenaliLED Techno Vintage Slaters	Medium E26	25,000	
DenaliLED Stargazer	GU10 or 16V 4 CL		
DenaliLED Techno Vintage Slaters	Low Voltage E26		

Color Consistency: Advanced LED beaming with 4-2-step MacAdam Ellipses

Color Constancy: Color constancy maintained through rated range 2ft

Dimensions: 2.28" Dia x 6.04" Length

Weight: 0.2Lbs

Listing: ETL listed

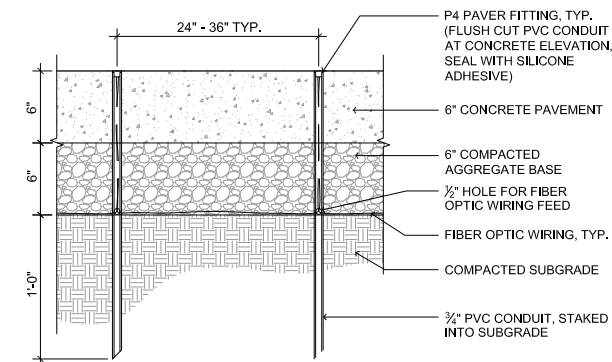
Color Quality: Tested in accordance with IESNA-C8

Warranty: 3 year warranty

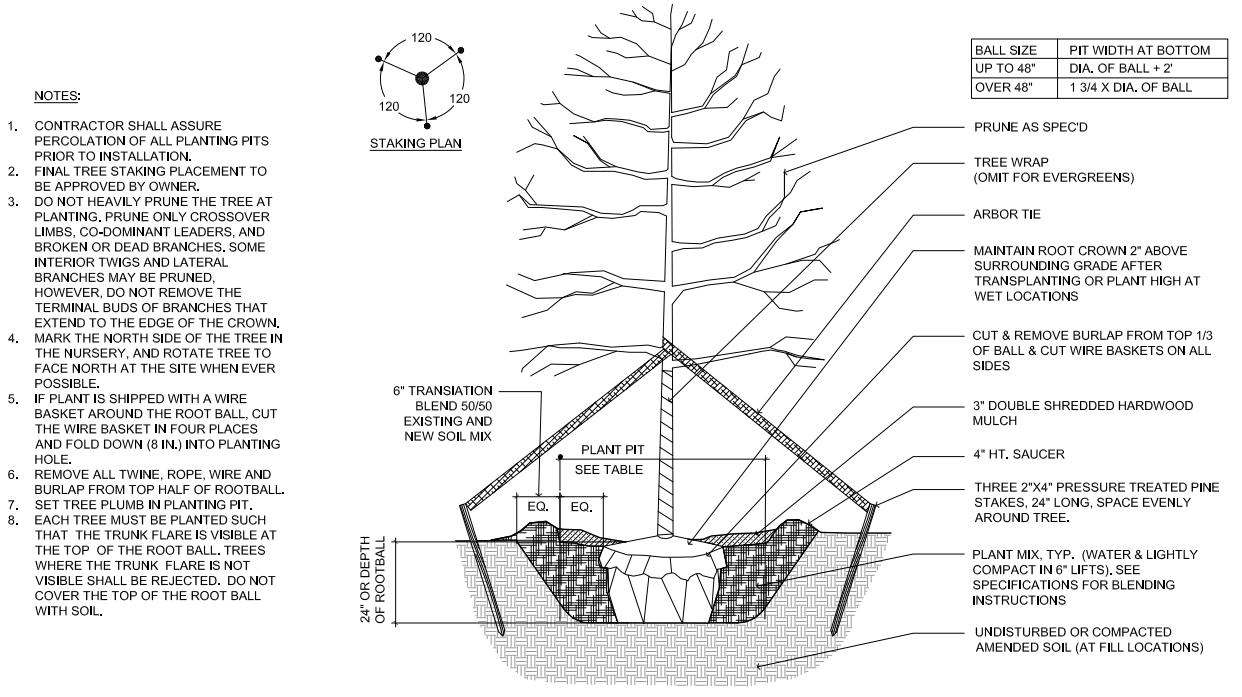
Ordering Guide

MODEL	TYPE	SOCKET BASE	WATTAGE	LED COLOR	WARRANTY	DIMENSIONS
BLV - DenaliLED	SU - SU Lamp	MD - E26 Medium Base	04 - 4.0W	02 - 2800K	SD - 3 YEAR	D - DenaliLED
						025 - 025 Lamp

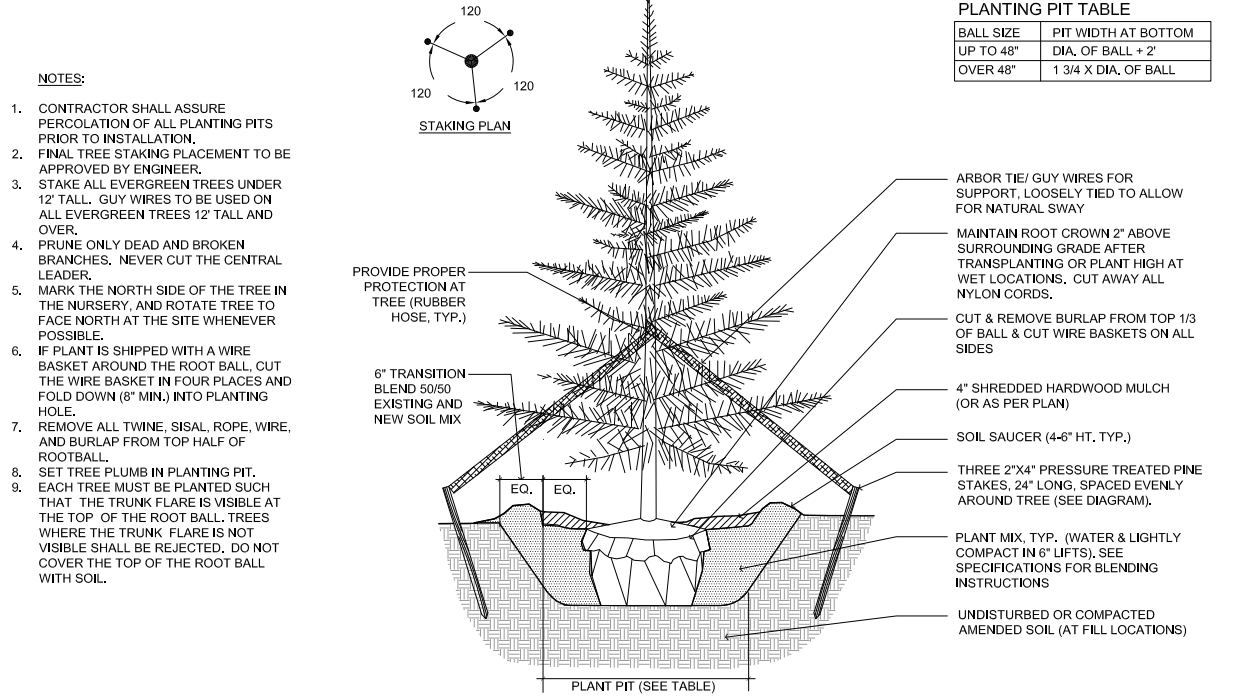
10 STRING LIGHT SPECIFICATIONS
N.T.S.



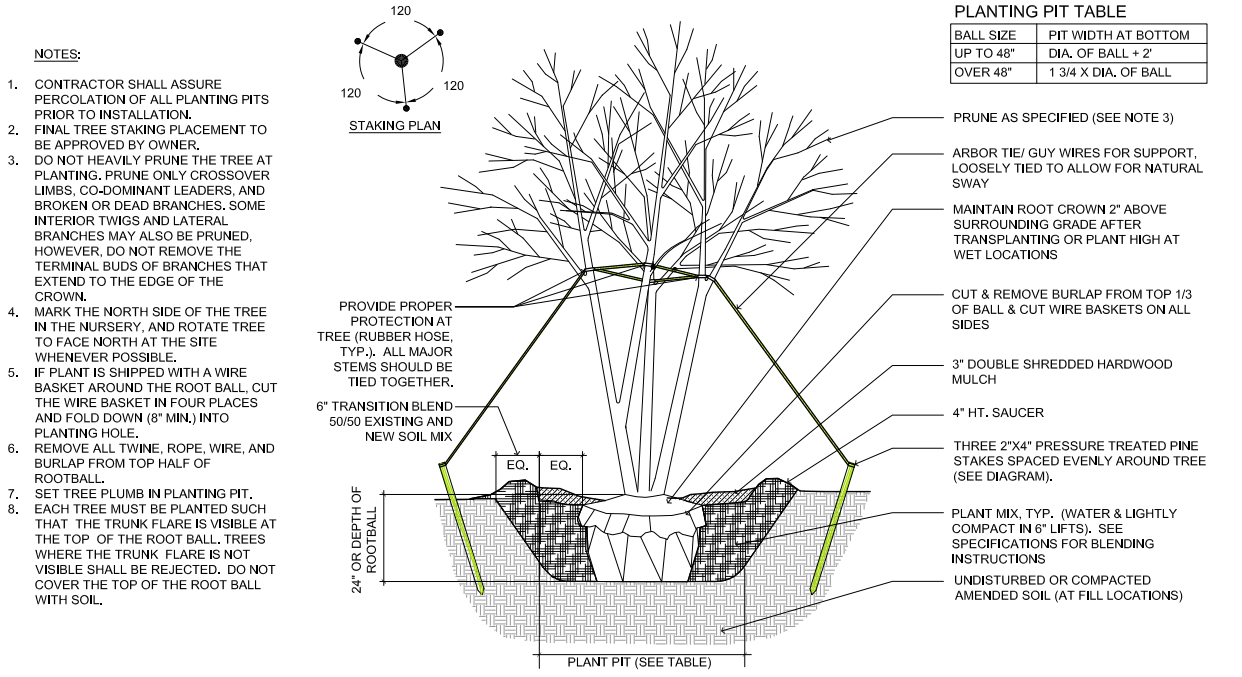
11 FIBER OPTIC LIGHTING INSTALLATION
SCALE: 1-1/2" = 1'-0"



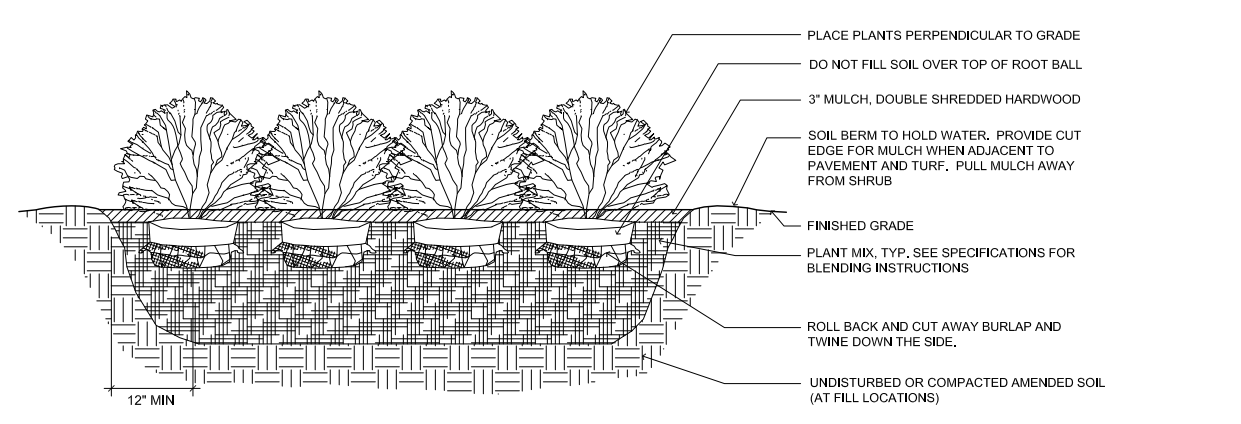
1 TREE PLANTING
SCALE: 1/2" = 1'-0"



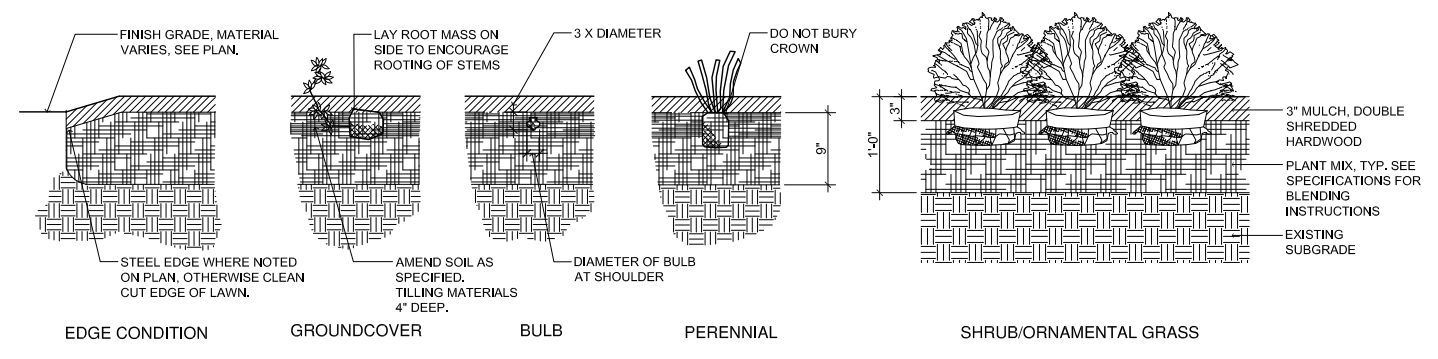
4 EVERGREEN TREE PLANTING
SCALE: 1/2" = 1'-0"



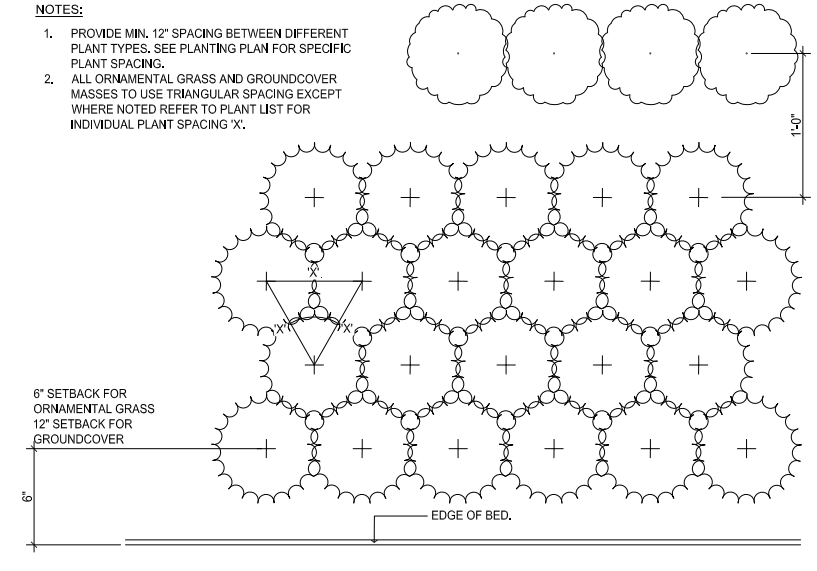
2 MULTI-STEMMED TREE PLANTING
SCALE: 1/2" = 1'-0"



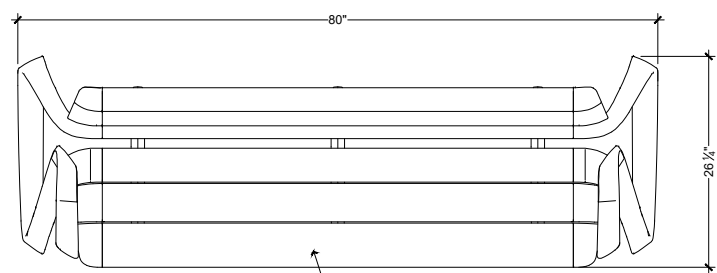
5 SHRUB / ORNAMENTAL GRASS PLANTING
SCALE: 1" = 1'-0"



3 TYPICAL BED PLANTING
SCALE: 1" = 1'-0"



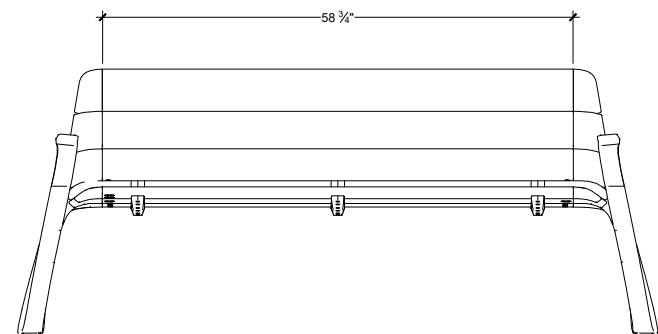
6 PLANT SPACING
SCALE: 1" = 1'-0"



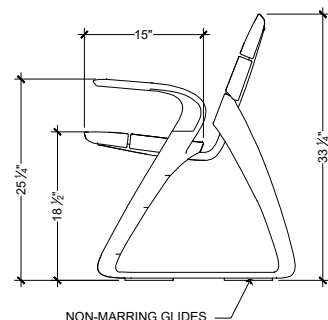
REST BACKED BENCH BY LANDSCAPE FORMS. ALUMINUM FRAME AND SLATS WITH END ARMS.



SURFACE MOUNT



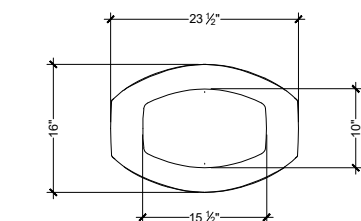
*** UNITS TO BE SURFACE MOUNTED PER MANUFACTURER'S SPECIFICATIONS ***



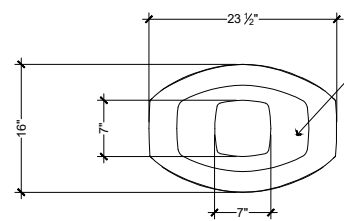
NON-MARRING GLIDES

landscapeforms

1 BENCH DETAIL
NOT TO SCALE

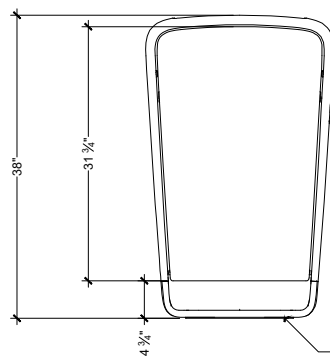


LITTER RECEPTACLE TOP, TYP.



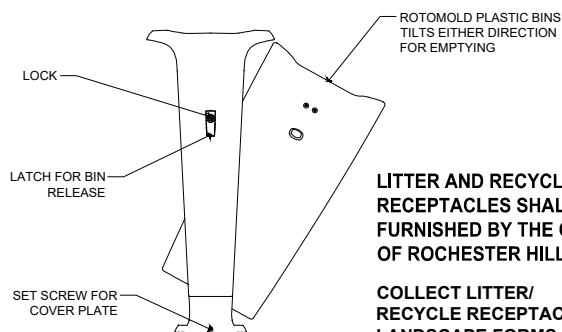
RECYCLE RECEPTACLE TOP, TYP.

CAST ALUMINUM INSERT WITH RECYCLE OPTION OPENING AND RECYCLING GRAPHICS



(2) 2 1/2" Ø HOLES FOR ANCHORING. NON-CORROSIVE 1/2" Ø ANCHORING HARDWARE SUPPLIED BY OTHERS

*** UNITS MUST BE SURFACE MOUNTED ***



LITTER AND RECYCLING RECEPTACLES SHALL BE FURNISHED BY THE CITY OF ROCHESTER HILLS

COLLECT LITTER/ RECYCLE RECEPTACLE BY LANDSCAPE FORMS. TOP OPENING RECEPTACLE, 30 GALLON, SURFACE MOUNT WITH LOCK.

landscapeforms

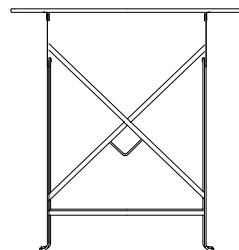
2 LITTER & RECYCLE RECEPTACLE DETAIL
NOT TO SCALE



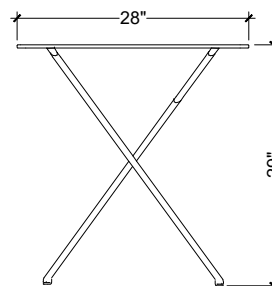
PERSPECTIVE



TOP VIEW



SIDE ELEVATION



FRONT ELEVATION

BISTRO FOLDING TABLE, 28" SQUARE, TYP.

SPECIFICATIONS:

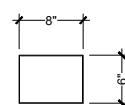
- WEIGHT: 22 LBS (3/4 PERSONS)
- FOLDING TABLE
- MATERIAL AND FINISH TO BE APPROVED BY OWNER
- FOOT PROTECTORS WITH PREDRILLED HOLES FOR SURFACE MOUNT APPLICATIONS.
- HIGH PROTECTION TREATMENT FOR OUTDOOR USE.
- ANTI-UV POWDER COATING

NOTES:

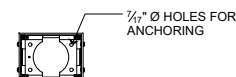
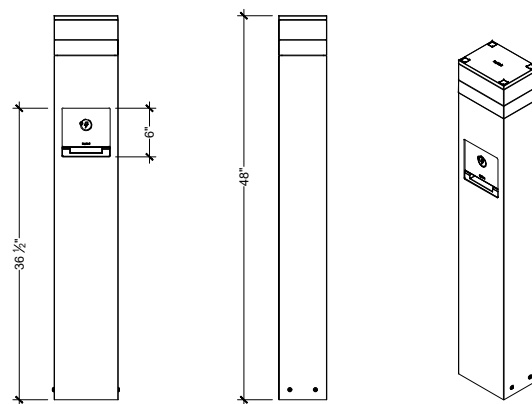
1. SEE MANUFACTURER FOR MORE COLOR OPTIONS. COLOR TO BE APPROVED BY OWNER.
2. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
3. THIS DRAWING IS INTENDED FOR DESIGN INTENT ONLY. CONTRACTOR TO SUBMIT PRODUCT INFORMATION TO ENGINEER FOR APPROVAL PRIOR TO SUBMITTING BID.

3 BISTRO TABLE DETAIL
NOT TO SCALE

CHARGING STATION SHALL BE FURNISHED BY THE CITY OF ROCHESTER HILLS



LEGRAND OUTDOOR CHARGING STATION WITH AREA LIGHT (BY LANDSCAPE FORMS); BRONZE FINISH. CHARGING STATION TO BE EQUIPPED WITH 2-GANG, ONE DUPLEX GFCI RECEPTACLE, ONE 4-PORT USB.



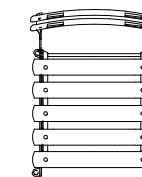
BASE PLATE AND ANCHOR BOLTS TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.

landscapeforms

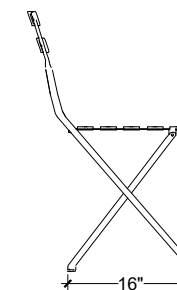
4 CHARGING STATION
NOT TO SCALE



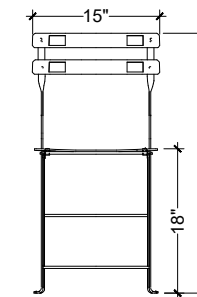
PERSPECTIVE



TOP VIEW



SIDE ELEVATION



FRONT ELEVATION

BISTRO FOLDING CHAIR, METAL FRAME WITH SLATS, TYP.

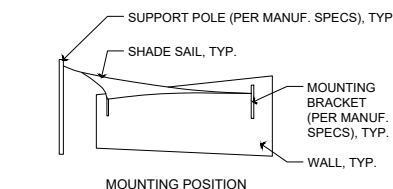
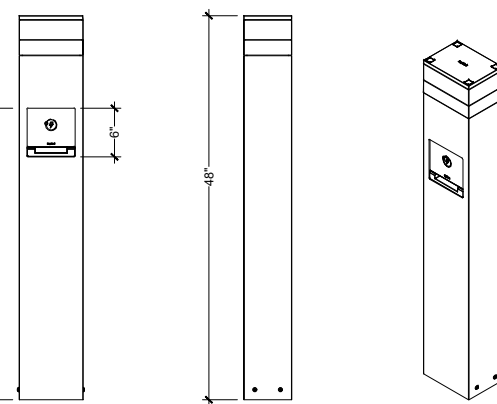
SPECIFICATIONS:

- FOLDING CHAIR
- MATERIAL AND FINISH TO BE APPROVED BY OWNER
- FOOT PROTECTORS WITH PREDRILLED HOLES FOR SURFACE MOUNT APPLICATIONS.
- REINFORCED FRAME (TESTED UP TO 600 LBS, MIN.)
- HIGH PROTECTION TREATMENT FOR OUTDOOR USE.
- ANTI-UV POWDER COATING

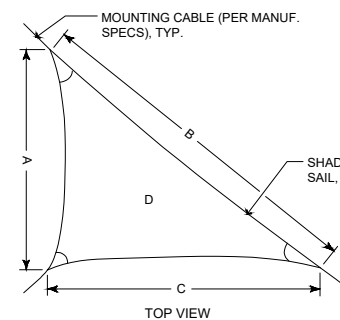
NOTES:

1. SEE MANUFACTURER FOR MORE COLOR OPTIONS. COLOR TO BE APPROVED BY OWNER.
2. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
3. THIS DRAWING IS INTENDED FOR DESIGN INTENT ONLY. CONTRACTOR TO SUBMIT PRODUCT INFORMATION TO ENGINEER FOR APPROVAL PRIOR TO SUBMITTING BID.

5 BISTRO CHAIR DETAIL
NOT TO SCALE



- NOTES:**
1. SEE MANUFACTURER FOR MORE COLOR OPTIONS. COLOR TO BE APPROVED BY OWNER.
 2. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
 3. ALL IMPERIAL DIMENSIONS ARE METRIC CONVERSIONS AND HAVE BEEN ROUNDED TO THE NEAREST INCH. IF EXACT DIMENSIONS ARE REQUIRED, REFER TO THE METRIC DIMENSIONS.
 3. THIS DRAWING IS INTENDED FOR DESIGN INTENT ONLY. CONTRACTOR TO SUBMIT PRODUCT INFORMATION TO ENGINEER FOR APPROVAL PRIOR TO SUBMITTING BID.



RIGHT TRIANGLE LAYOUT

A	B	C	D
cm / ft	cm / ft	cm / ft	m ² / ft ²
400 / 13' 1"	640 / 21'	500 / 16' 5"	7.35 / 79'

6 SHADE SAIL DETAIL
NOT TO SCALE

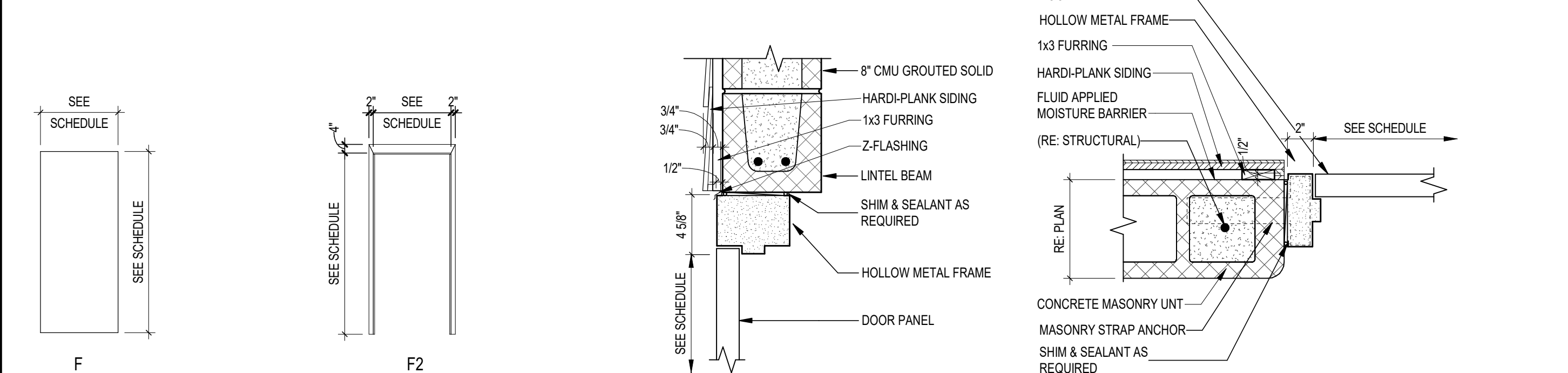
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DOOR SCHEDULE

MARK	TYPE	DOOR MATERIAL	FRAME MATERIAL	DOOR / FRAME FINISH	GLAZING TYPE	DETAIL	FIRE RATING	HARDWARE SET
AS SPECIFIED ON FLOOR PLANS	REFER TO LEGENDS ON THIS SHEET	HM HOLLOW METAL	HM HOLLOW METAL	PTD PAINTED	GL-1 SINGLE PANE, CLEAR GL-2 DOUBLE PANE, CLEAR GL-3 DOUBLE PANE, GRAY	REFER TO DETAILS AS INDICATED	IN MINUTES	REFER TO PROJECT MANUAL DIVISION 08 FOR HARDWARE SCHEDULE

SCHEDULE NOTES:
 1. EXISTING PANEL TO REMAIN
 2. EXISTING FRAME TO REMAIN
 3.

REV	MARK	WIDTH	HEIGHT	THICK.	NO. OF LEAFS	DOOR			FRAME			GLAZING	DETAIL			FIRE RATING		HDWR	NOTES		
						TYPE	MAT'L	FINISH	TYPE	MAT'L	FINISH	DEPTH	TYPE	HEAD	JAMB	THRSH	WALL	LBL.			
	101	3'-0"	7'-0"	1 3/4"	1	F	HM	PTD	F2	HM	PTD	5 3/4"	-							1	
	102	3'-0"	7'-0"	1 3/4"	1	F	HM	PTD	F2	HM	PTD	5 3/4"	-							1	
	103	6'-0"	7'-0"	1 3/4"	2	F	HM	PTD	F2	HM	PTD	5 3/4"	-							2	



DOOR ELEVATION FRAME ELEVATION HEAD DETAIL JAMB DETAIL

Hardware Set 1 - Privacy Lockset w/ Occupancy Indicator [Lock / Unlock] + Closer Stop

3 ea. Butt Hinge 35SBB 4545 NRP	32D	PBB
1 ea. Privacy Lockset w/ Indicator MR236 BJEW-SF7	32D	PDO
1 ea. Closer 7101BC SCS (Push Side Mount)	AL	PDO
1 ea. Kickplate 98 10 x 2' LDW	32D	PDO
1 ea. Threshold S205 (notch & cope as required)	AL	Reese
1 ea. Sweep 354 -Mount pull side	AL	Reese
1 set Weatherstrip 855C (mount prior to closer shoe)	AL	Reese
1 ea. Rain Drip 201C	AL	Reese

Hardware Set 2 - Flushbolts x Deadbolt Lock [Always Locked] + Closer x Overhead Stop

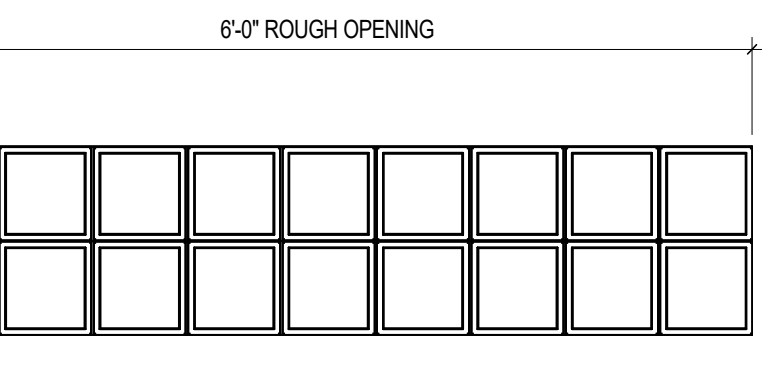
6 ea. Butt Hinge 35SBB 4545 NRP	32D	PBB
1 set Flushbolts 93170 x 93170 + 909 Dust Proof Strike	26D	PDO
1 ea. Deadbolt Lock MR136 BJEW-SF7	32D	PDO
1 ea. Closer 7101BC SCSHO (Push Side Mount Active Leaf)	AL	PDO
1 ea. Overhead Stop OH4903H (Inactive Leaf)	32D	Hiawatha
2 ea. Kickplate 98 10 x 2' LDW	32D	PDO
1 ea. Threshold S205 (notch & cope as required)	AL	Reese
2 ea. Sweep 354C -Mount pull side	AL	Reese
1 set Weatherstrip 855C	AL	Reese
1 set Flex Astragal 103C x 103C	AL	Reese
1 ea. Rain Drip 201C	AL	Reese

GENERAL NOTES - ARCHITECTURAL

- DO NOT SCALE DRAWINGS. IF DIMENSIONS CANNOT BE DETERMINED OR DOCUMENTS ARE IN CONFLICT, THE CONTRACTOR SHALL OBTAIN CLARIFICATION FROM THE ARCHITECT PRIOR TO CONTINUATION OF WORK.
- ALL WALL DIMENSIONS ARE TO FACE OF BASIC WALL FINISH.
- FIELD VERIFY ALL PROJECT CONDITIONS PRIOR TO THE START OF WORK, AND AS NEEDED THROUGHOUT THE DURATION OF CONSTRUCTION. BRING ANY DISCREPANCIES WHICH MAY SIGNIFICANTLY AFFECT NEW CONSTRUCTION WORK TO THE ATTENTION OF THE ARCHITECT FOR REVIEW.
- WHERE NEW WALL CONSTRUCTION ABUTS EXISTING, IN-LINE, AND/OR ON PLANS, DIRECTLY ALIGN NEW FINISH WALL SURFACE(S) WITH EXISTING.
- WHERE NEW WALL CONSTRUCTION ABUTS WINDOW MULLION(S) ON PLANS, CENTER WALL ON CENTER LINE OF MULLION, UNO.
- ALL WOOD BLOCKING AND BACKING SHALL BE FIRE-RETARDANT TREATED, UNO.
- INFORMATION SHOWN IN ONE LOCATION ON THE DRAWINGS IS THE SAME AS IF SHOWN ON MULTIPLE LOCATIONS.
- TYPICAL CONDITIONS ARE NOTED ONLY ONCE.
- COORDINATE OPENINGS AND PENETRATIONS BETWEEN TRADES.
- FLOOR LEVELS BETWEEN ADJACENT MATERIALS MUST NOT EXCEED 1/4". PROVIDE APPROPRIATE TRANSITION STRIPS OR LEVEL FLOORS AS REQUIRED.
- FLOORS MUST BE MADE LEVEL TO NO LESS THAN 1/8" IN 10', USING A 10' STRAIGHTEDGE.
- PROVIDE REQUIRED FILLERS, SEALANT, OR TRIM AS NECESSARY TO CLOSE GAPS BETWEEN ADJACENT MATERIALS.
- WALLS SCHEDULED TO RECEIVE PAINT ARE TO BE PAINTED TO 6" ABOVE CEILING HEIGHT.
- REFER TO FINISH PLANS FOR ROOM FINISHES.

ROOM FINISH SCHEDULE

REV.	No.	ROOM NAME	AREA	PERIMETER	FINISHES					NOTES		
					FLOOR	BASE	WALL FINISH				CEILING	
							N	S	E			W
	101	Family	59 SF	30'-8 11/32"	SEALED CONCRETE		PT-3	PT-4	PT-3	PT-3	PT-1	
	102	Family	59 SF	30'-9 17/256"	SEALED CONCRETE		PT-3	PT-4	PT-3	PT-3	PT-1	
	103	Stor. and Equip.	268 SF	65'-5 61/64"	SEALED CONCRETE		PT-3	PT-4	PT-3	PT-3	PT-1	



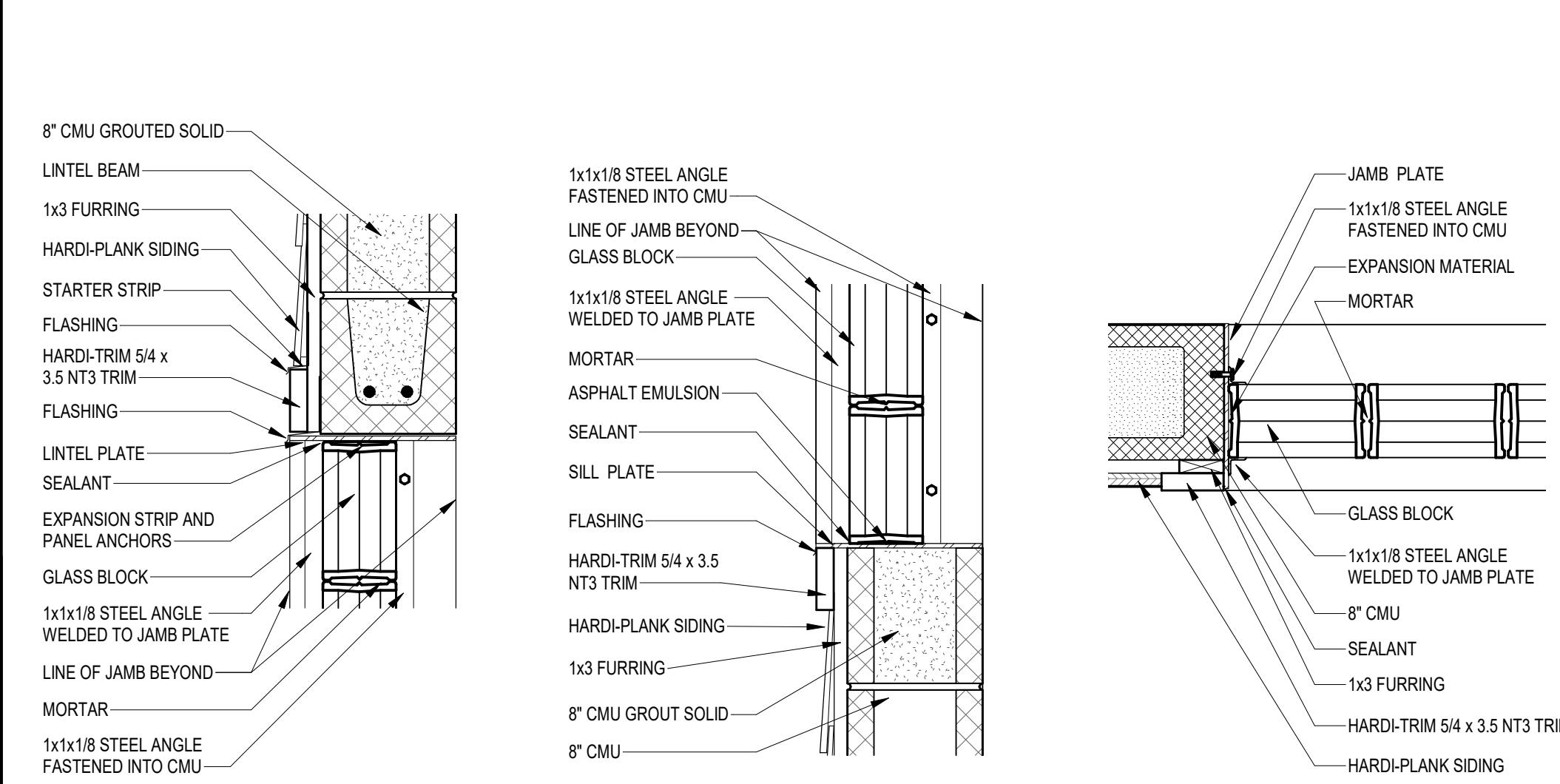
WINDOW TYPE W1

WINDOW SCHEDULE

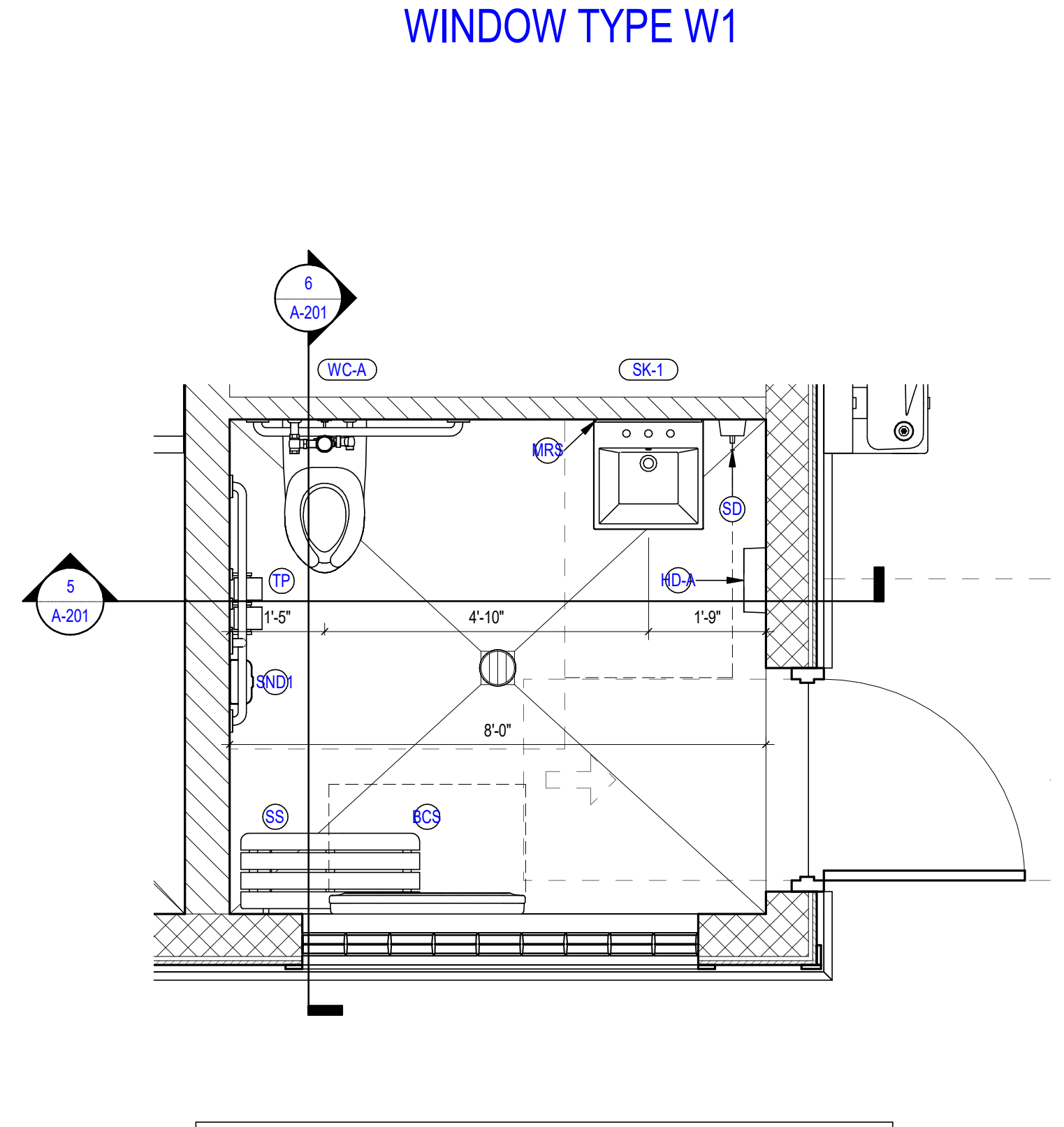
MARK	TYPE	FRAME MATERIAL	FRAME FINISH	GLAZING TYPE	DETAIL	FIRE RATING
AS SHOWN ON FLOOR PLANS	REFER TO LEGEND ON THIS SHEET	WD WOOD	PTD PAINTED	GL-1 SINGLE PANE, CLEAR GL-2 DOUBLE PANE, CLEAR GL-3 DOUBLE PANE, GRAY GL-4 8X8 BLOCK, WAVE,...	REFER TO DETAILS AS INDICATED	IN MINUTES

SCHEDULE NOTES:
 1. CONTRACTOR SHALL VERIFY ALL PROVIDED QUANTITIES

REV	MARK	TYPE	WIDTH	HEIGHT	FRAME	GLAZING	DETAIL	FIRE RATING	NOTES	
					MAT'L	TYPE	HEAD	JAMB	SILL	
	W1	W1	5'-10 11/128"	1'-3 191/256"	WD	PTD	GL-4			5

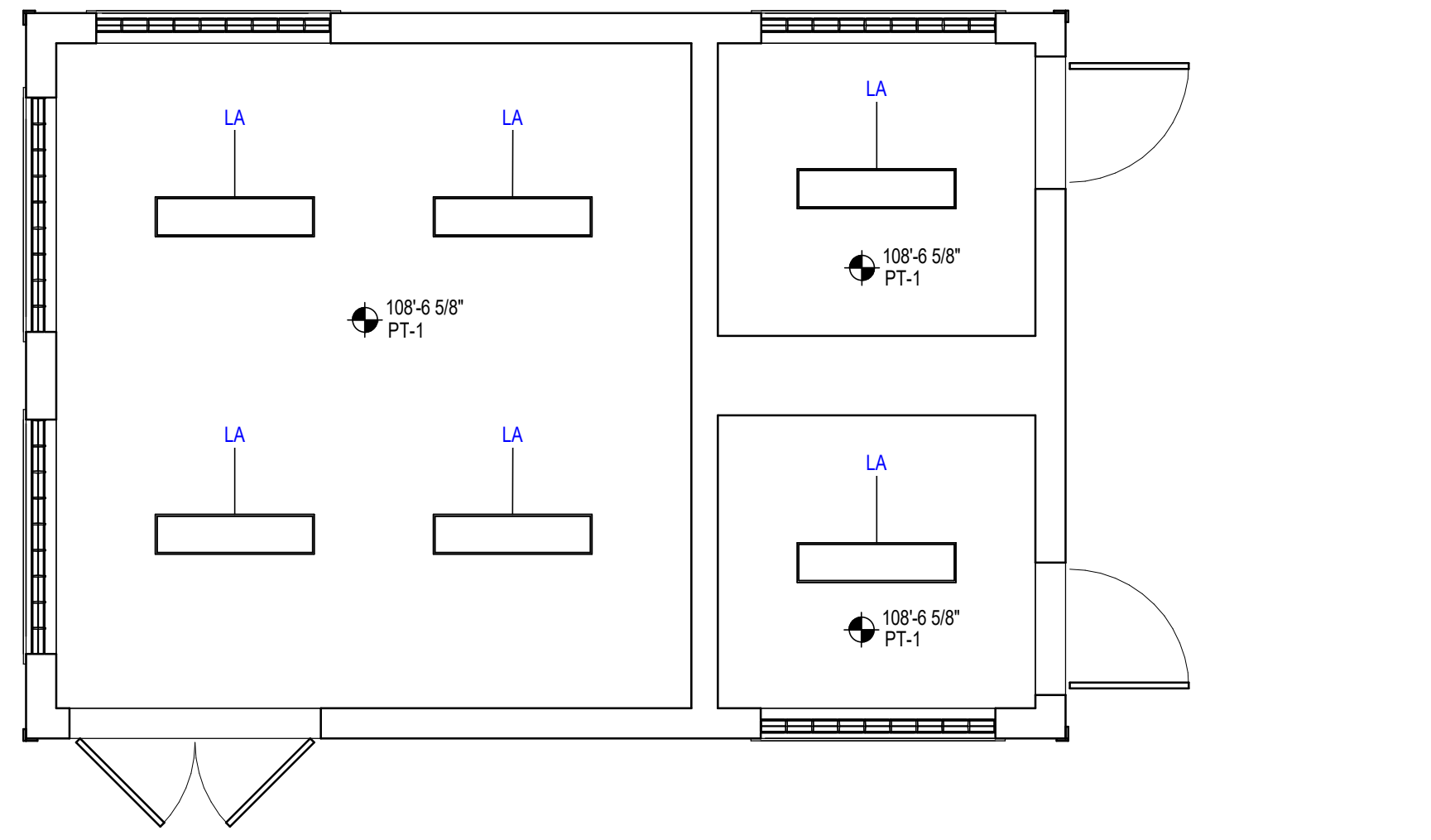


HEAD DETAIL SILL DETAIL JAMB DETAIL

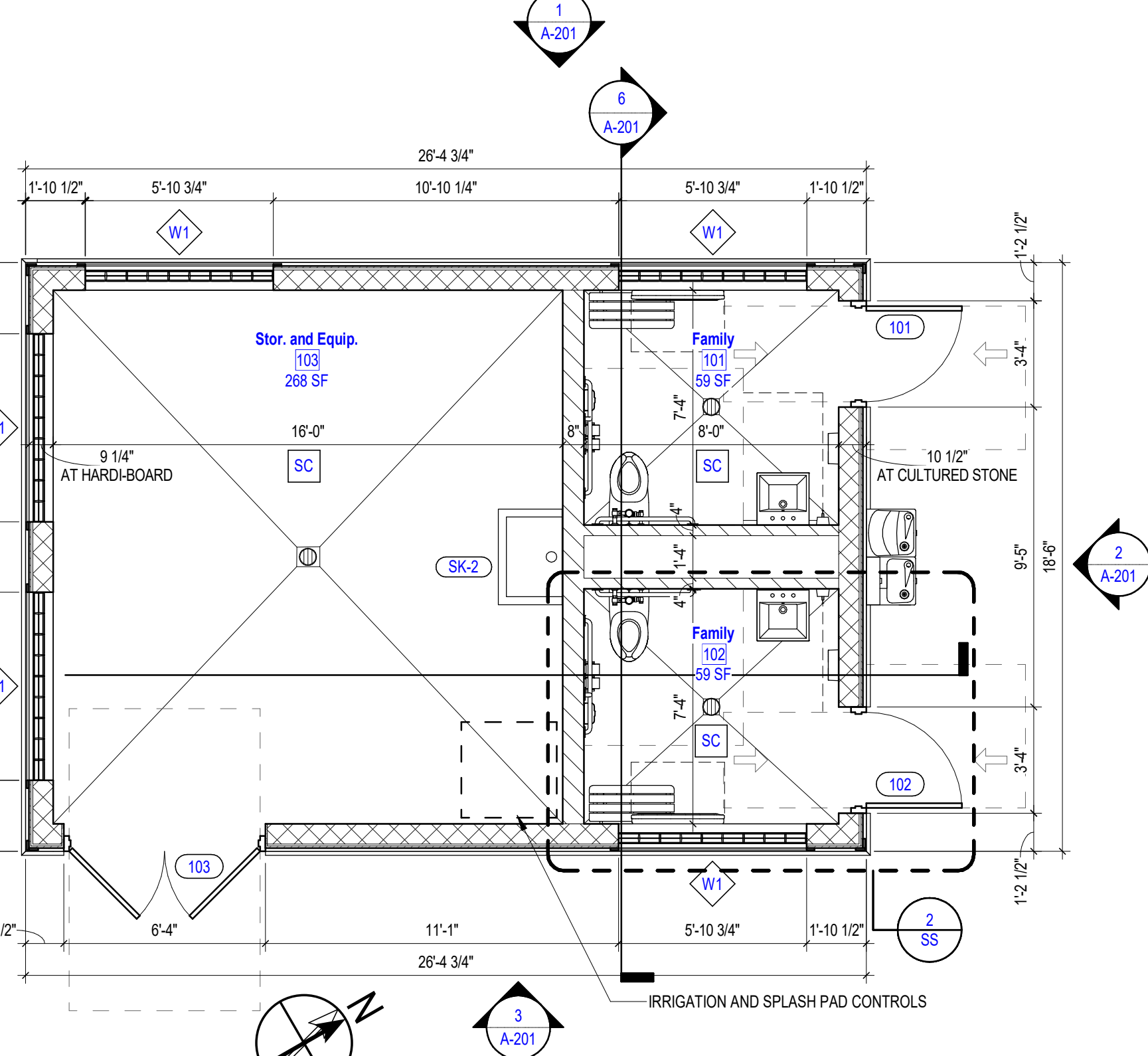


REFER TO SHEET A-201 FOR TOILET ACCESSORY SCHEDULE, LEGEND, AND MOUNTING HEIGHTS

2 ENLARGED PLAN - TYPICAL TOILET ROOM
1/2" = 1'-0"



3 REFLECTED CEILING PLAN
1/4" = 1'-0"



1 FLOOR PLAN
1/4" = 1'-0"

ROCHESTER HILLS MICHIGAN

OHM
ARCHITECTS ENGINEERS PLANNERS

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REVISIONS:

No.	Description

DATE: 04/02/2019 09:50:17:00Z
 PROJ. NUMBER: 0195-17-0020
 LA PROJ. MGR: ML
 COUNTY: Oakland
 MUNICIPALITY: Rochester Hills
 SCALE: As Indicated

CITY OF ROCHESTER HILLS
AUBURN ROAD RECONSTRUCTION

BUILDING PLANS, SCHEDULES AND DETAILS

A-101

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GENERAL NOTES:

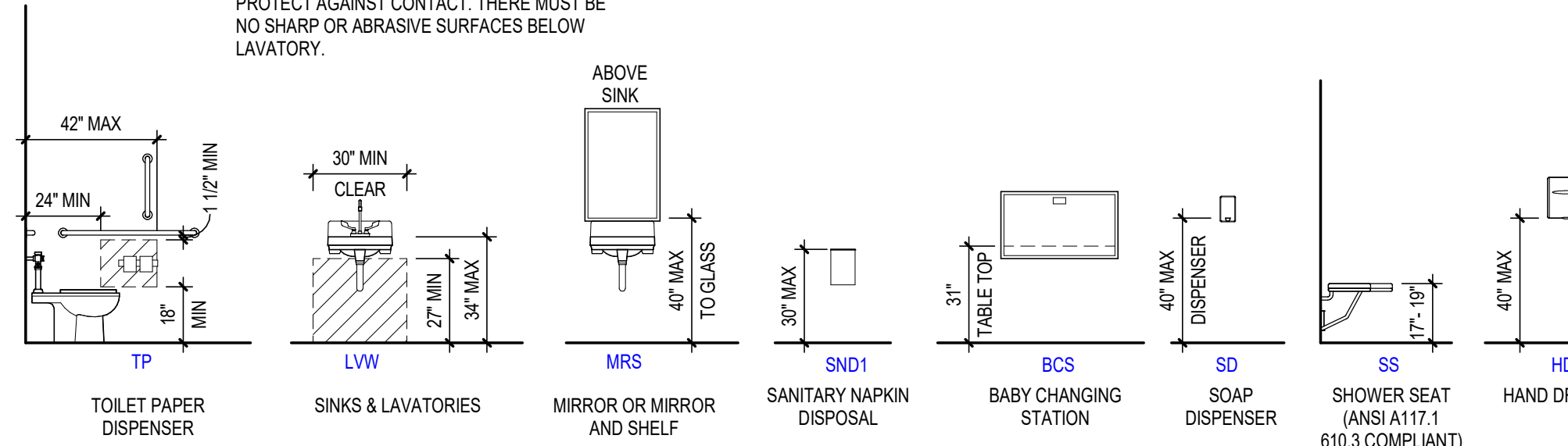
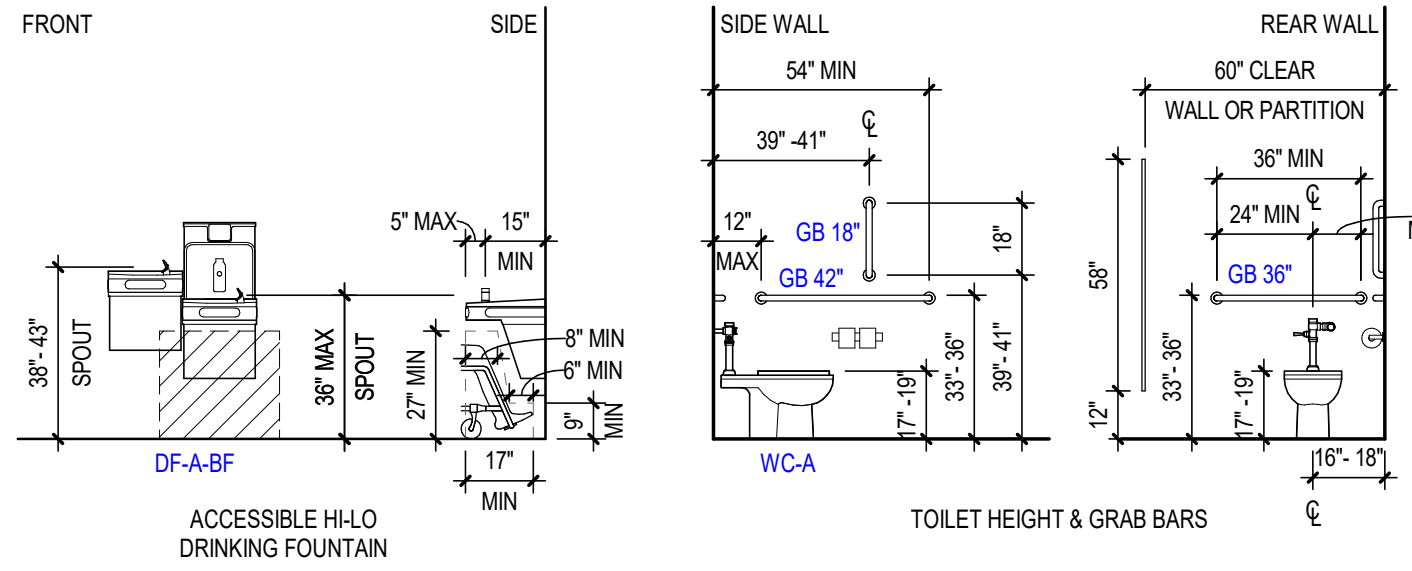
1. COMPLY WITH THE STATE BUILDING CODE, ANSI 117.1, AND THE AMERICANS WITH DISABILITIES ACT.
2. PROVIDE BLOCKING BEHIND TOILET ACCESSORIES FOR SECURE MOUNTING TO WITHSTAND 250# VERTICAL AND HORIZONTAL FORCE.

NOTE:

EXPOSED WATER SUPPLY AND DRAINAGE PIPES BELOW LAVATORIES OR SINKS MUST BE INSULATED OR OTHERWISE POSITIONED TO PROTECT AGAINST CONTACT. THERE MUST BE NO SHARP OR ABRASIVE SURFACES BELOW LAVATORY.

GENERAL NOTES - ELEVATIONS

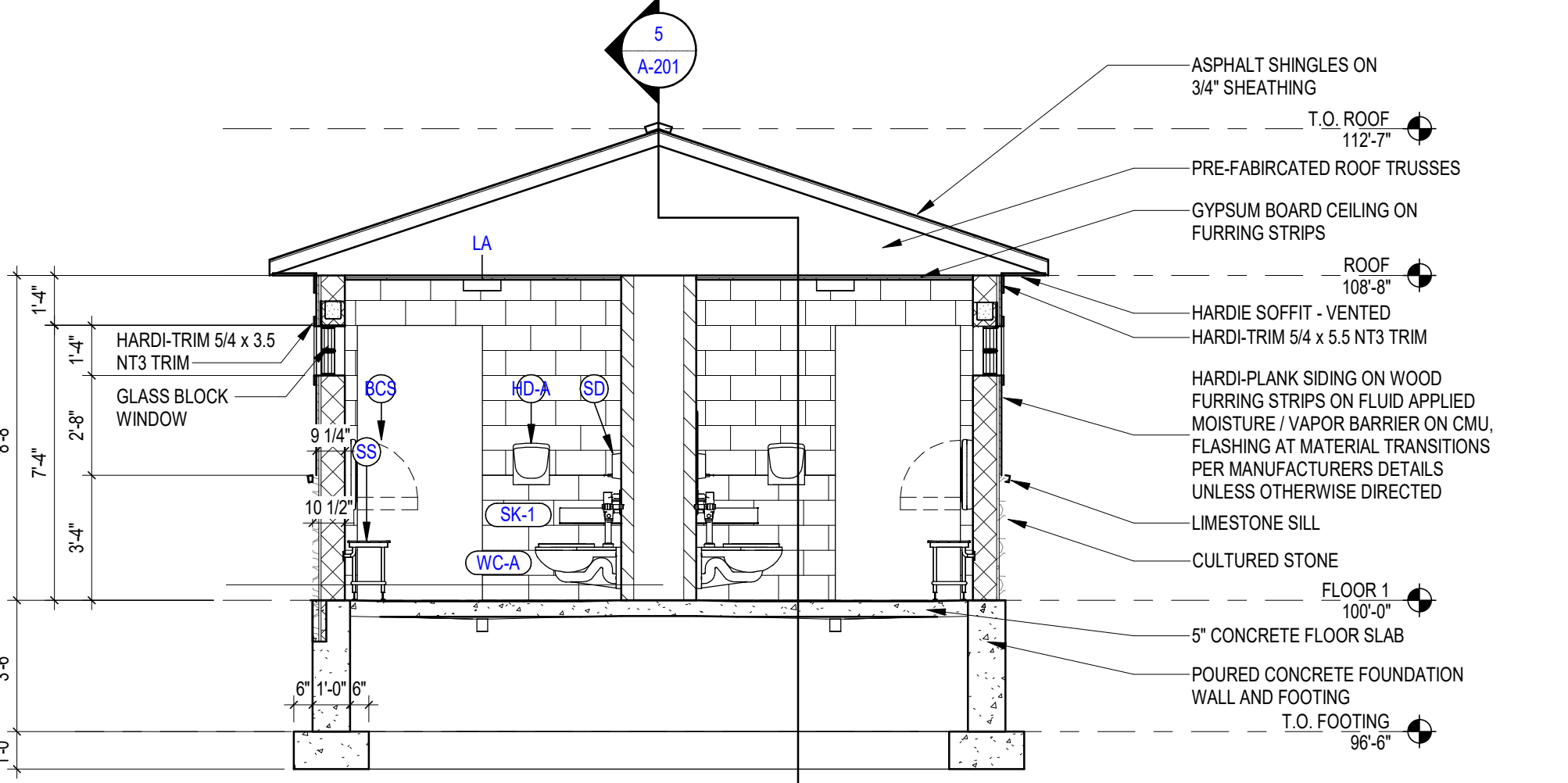
1. ALL PENETRATIONS SHALL BE SEALED WITH APPROPRIATE MATERIAL
2. ALL EXPOSED METAL ELEMENTS TO BE PRE-FINISHED; COLOR AS SELECTED BY ARCHITECT
3. REFER TO PROJECT MANUAL FOR ADDITIONAL INFORMATION ON FINISHES & INSTALLATION REQUIREMENTS



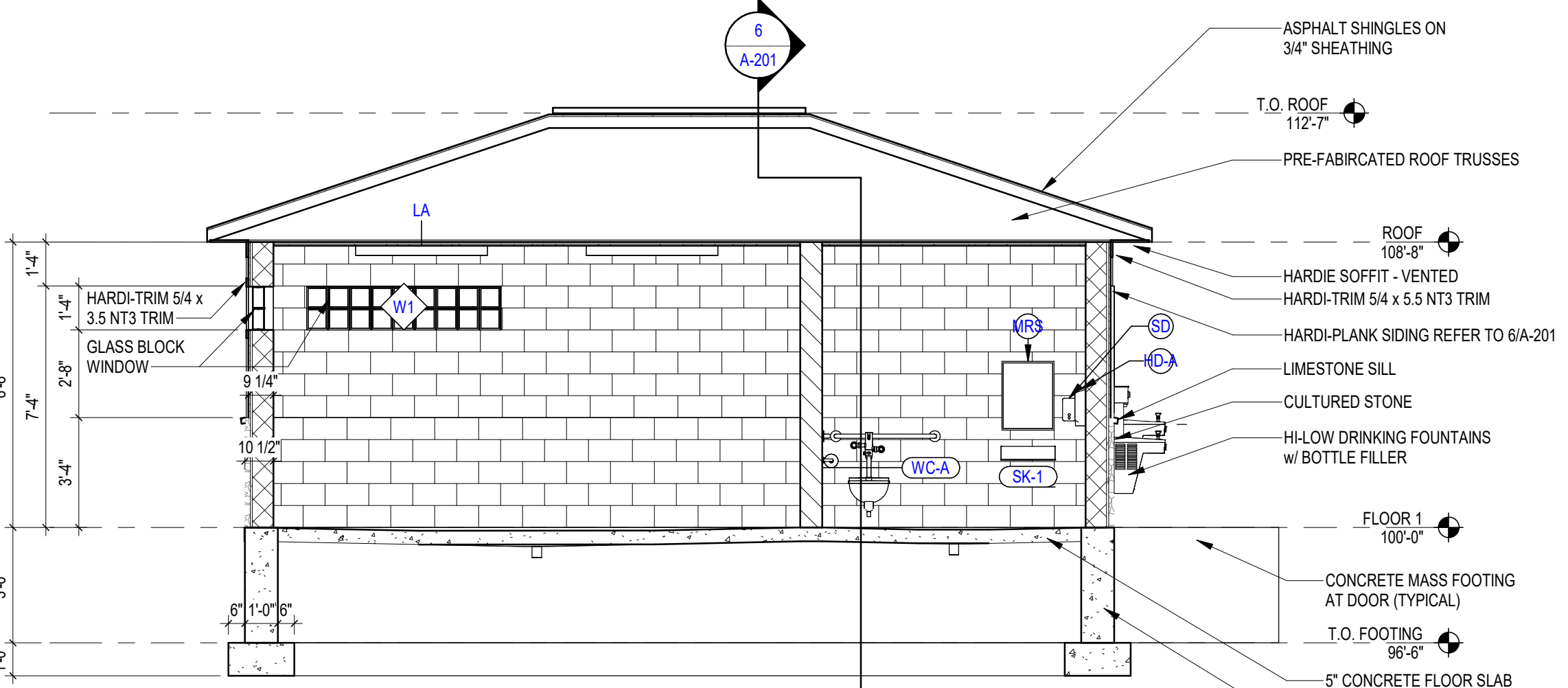
MOUNTING LOCATIONS LEGEND

EXTERIOR AND INTERIOR MATERIALS DATA

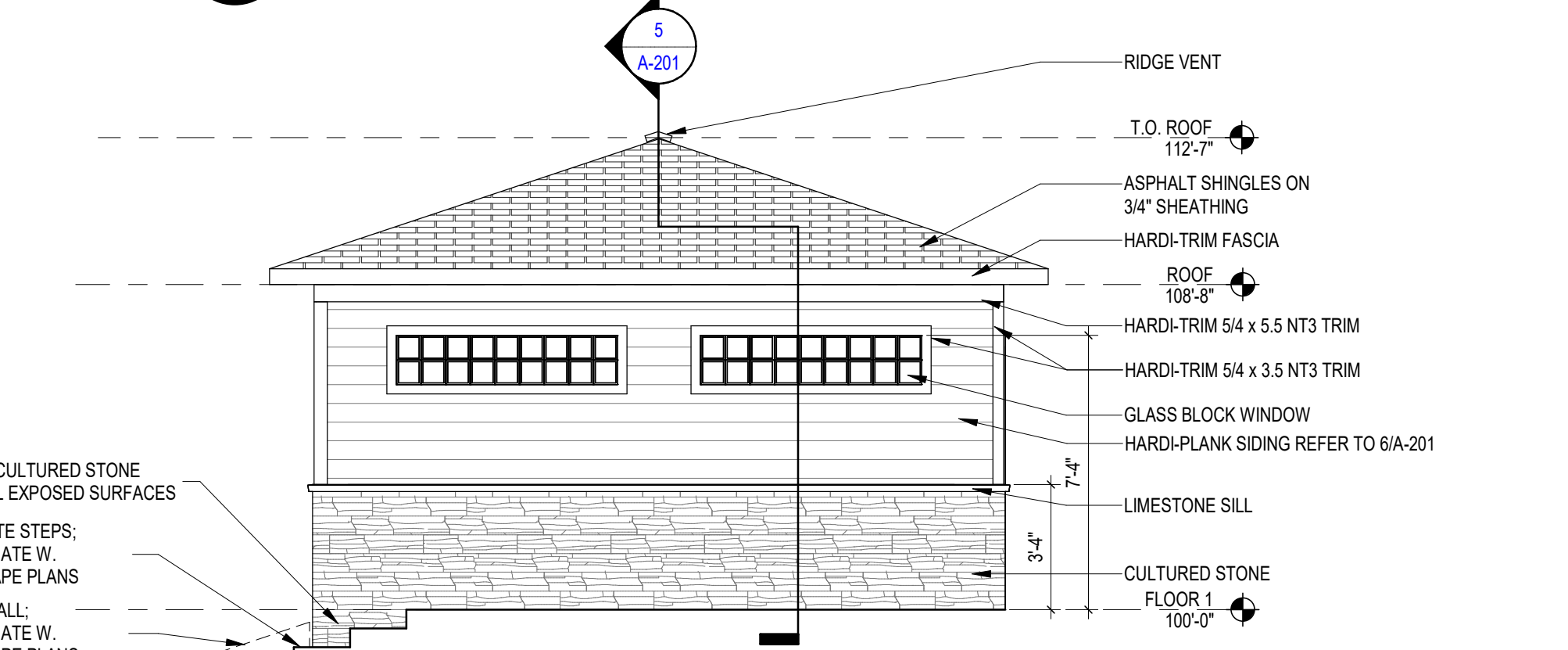
- Base Material**
- Field -
 Manufacturer: Cultured Stone
 Product: Country Ledgestone
 Height: Variable from 2" to 12"
 Width: Variable from 5" to 16"
 Texture: As Manufactured
 Color: Echo Ridge
 Warranty: 50-year Limited
- Sill -
 Manufacturer: Natural Limestone
 Product: Sill
 Height: 2" front
 Width: 18"
 Color: Rock Face
 Gray
- Siding & Trim**
- Siding -
 Manufacturer: James Hardie
 Product: HardiePlank Lap Siding (Zone HZ5)
 Thickness: 5/4 NT3
 Texture: Smooth
 Color: Gray Slate
 Warranty: 30-year Limited
 Notes: Blind Nail - Install with nails with matching color heads. Flashing required at bottom and over doors and windows. Do not install over lap siding.
- Trim -
 Manufacturer: James Hardie
 Product: HardieTrim Boards (Zone HZ5)
 Thickness: 5/4 NT3
 Width: As noted on drawings
 Texture: Smooth
 Color: Artic White
 Warranty: 30-year Limited
- Shingles**
- Manufacturer: GAF
 Product: Timberline Cool Series
 Size: 13-1/4" x 39-3/8"
 Exposure: 5-5/8"
 Color: Antique Slate
 Hip/Ridge: GAF Cool Seal-A-Ridge
 Starter: GAF ProStart
 Ridge Vent: GAF Cobra Snow Country
 Warranty: 40-Year Limited
- Manufacturer: Seves Glass Block
 Product: Basic
 Size: 1919/8
 Style: Wave
 Warranty: 25-Year Limited
- Hollow Metal Doors and Frames**
- Hollow Metal Doors
 Manufacturer: Ceco Door
 Product: 1-3/4"-O.F.-16GA-G90 w/ Welded Vertical Edges, and 14GA Closer Reinforcement
 Finish: Paint P-2
- Hollow Metal Frames
 Manufacturer: Ceco Door
 Product: SQ-WMA-KD-16GA-G90
 Finish: Paint P-2
- Paint**
- P-1
 Application: Interior Ceilings
 Manufacturer: Sherwin Williams
 Color: SW 7004 Snowbound
- P-2
 Application: Doors, Frames, Steel at windows
 Manufacturer: Sherwin Williams
 Color: SW 7067 Cityscape
- P-3
 Application: Interior Walls
 Manufacturer: Sherwin Williams
 Color: SW 7065 Argos
- P-4
 Application: Interior Walls
 Manufacturer: Sherwin Williams
 Color: SW 7066 Gray Matters
- Masonry Block**
1. First Coat: Masonry block filler at rate not to exceed 100 sq. ft. per gal.
 - a. Benjamin Moore: Interior and Exterior Block Filler 173
 - b. PPG Glidden: Concrete Coatings Block Filler Interior/Exterior Primer 3010-1200.
 - c. PPG Paints: Speedhide Latex Block Filler 6-15X
 - d. Pratt & Lambert: Pro Hide Silver Block Filler Z8485
 - e. Sherwin Williams: Pro Mar Interior/Exterior Block Filler B25V25
 2. Second and Third Coats - Non-epoxy.
 - a. Semi-Gloss Latex Enamel Finish: Two (2) Coats over filled surface with total dry film thickness not less than 3.5 mils, excluding filler coat.
 1. Benjamin Moore: Moorcraft Latex Semi Gloss Enamel 276.
 2. PPG Glidden: Ultra-Hide 150 Interior Semi-Gloss Paint 1416V Series.
 3. PPG Paints: 6-512 Series, Speedhide Semi-Gloss Latex Enamel.
 4. Pratt & Lambert: Pro Hide Gold Latex, Satin Z9400 or Semi Z8300
 5. Sherwin Williams: ProMar 200 Zero VOC Latex Semi-Gloss B31 Series
- Ferrous Metals**
1. First Coat: (if flash rusting occurs, use two coats)
 - a. Benjamin Moore: M04 Acrylic Metal Primer
 - b. PPG PAINTS: Pitt-Tech Plus Interior/Exterior Industrial Primer 4020PF series
 - c. Pratt & Lambert: Universal Acrylic Primer Z8631 or Steeltech Acrylic Prime & Finish Z190.
 - d. Sherwin Williams: ProCryl Universal Metal Primer B66-310 Series
 2. Second and Third Coats:
 - a. Benjamin Moore: Moorcraft Latex House and Trim Paint 170 except at railings which shall be Impervex Enamel 309
 - b. PPG PAINTS: Pitt-Tech Plus DTM Acrylic Gloss 90-1310 series.
 - c. Pratt & Lambert: DTM Acrylic Gloss Z8641 or Semi-Gloss Z8761 or Satin Z6671.
 - d. Sherwin Williams: DTM Acrylic Gloss Coating (Water Reducible), B66-100
- Plaster and Gypsum Board Ceilings and Ceiling Drops**
1. First Coat:
 - a. Benjamin Moore: Moorcraft Vinyl Latex Primer-Sealer 273.
 - b. PPG Paints: Speedhide Latex Primer 6-2.
 - c. Pratt & Lambert: Plaster: Pro Hide Gold Z1001 Gypsum: Pro Hide Gold High Holdout Latex Primer/Sealer Z8165
 - d. Sherwin Williams: ProMar 200 Zero VOC Primer B28W2800
 2. Second Coat:
 - a. Benjamin Moore: Moorcraft Vinyl Latex Flat 275
 - b. PPG Glidden: Ultra-Hide 150 Interior Flat Paint 1210V Series.
 - c. PPG Paints: Speedhide Latex Flat 6-70 (for all colors)
 - d. Pratt & Lambert: Pro Hide Gold Latex Flat Z8100, Eggshell Z8200, Satin Z9400 or Semi Z8300.
 - e. Sherwin Williams: ProMar 200 Zero VOC Latex Flat B30 Series
 3. Third Coat:
 - a. Benjamin Moore: Moorcraft Vinyl Latex Flat 275
 - b. PPG Glidden: Ultra-Hide 150 Interior Flat Paint 1210V Series.
 - c. PPG Paints: Speedhide Latex Flat 6-70 (for all colors)
 - d. Pratt & Lambert: Pro Hide Gold Latex Flat Z8100, Eggshell Z8200, Satin Z9400, or Semi Z8300.
 - e. Sherwin Williams: ProMar 200 Zero VOC Latex Flat B30 Series



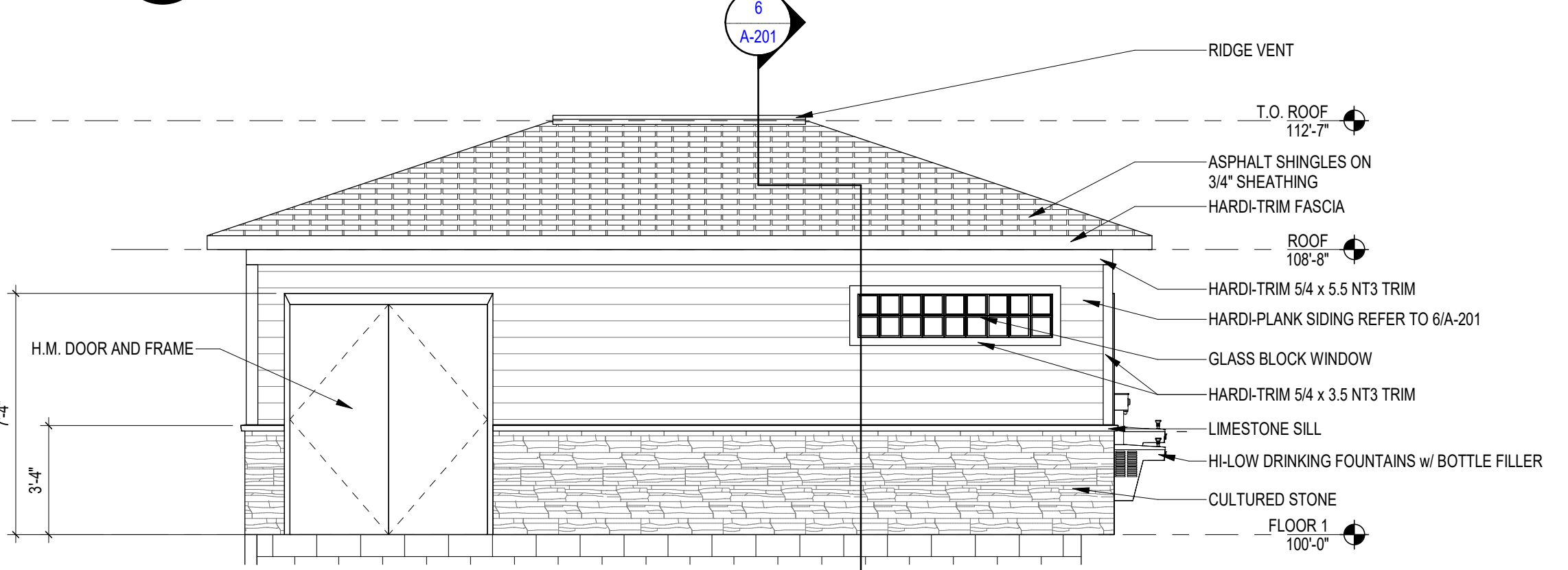
6 SECTION THROUGH TOILET ROOMS 1/4" = 1'-0"



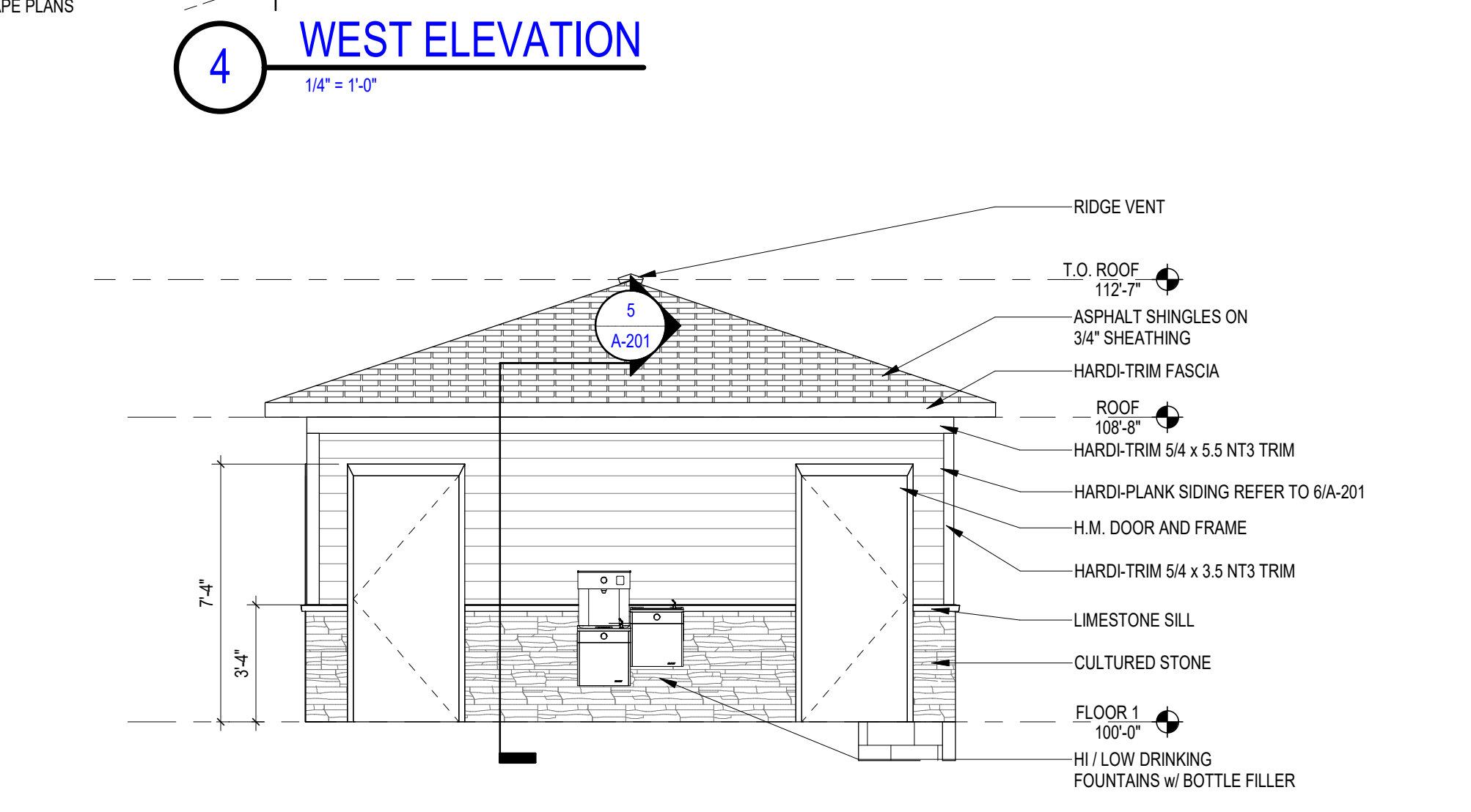
5 LONGITUDINAL BUILDING SECTION 1/4" = 1'-0"



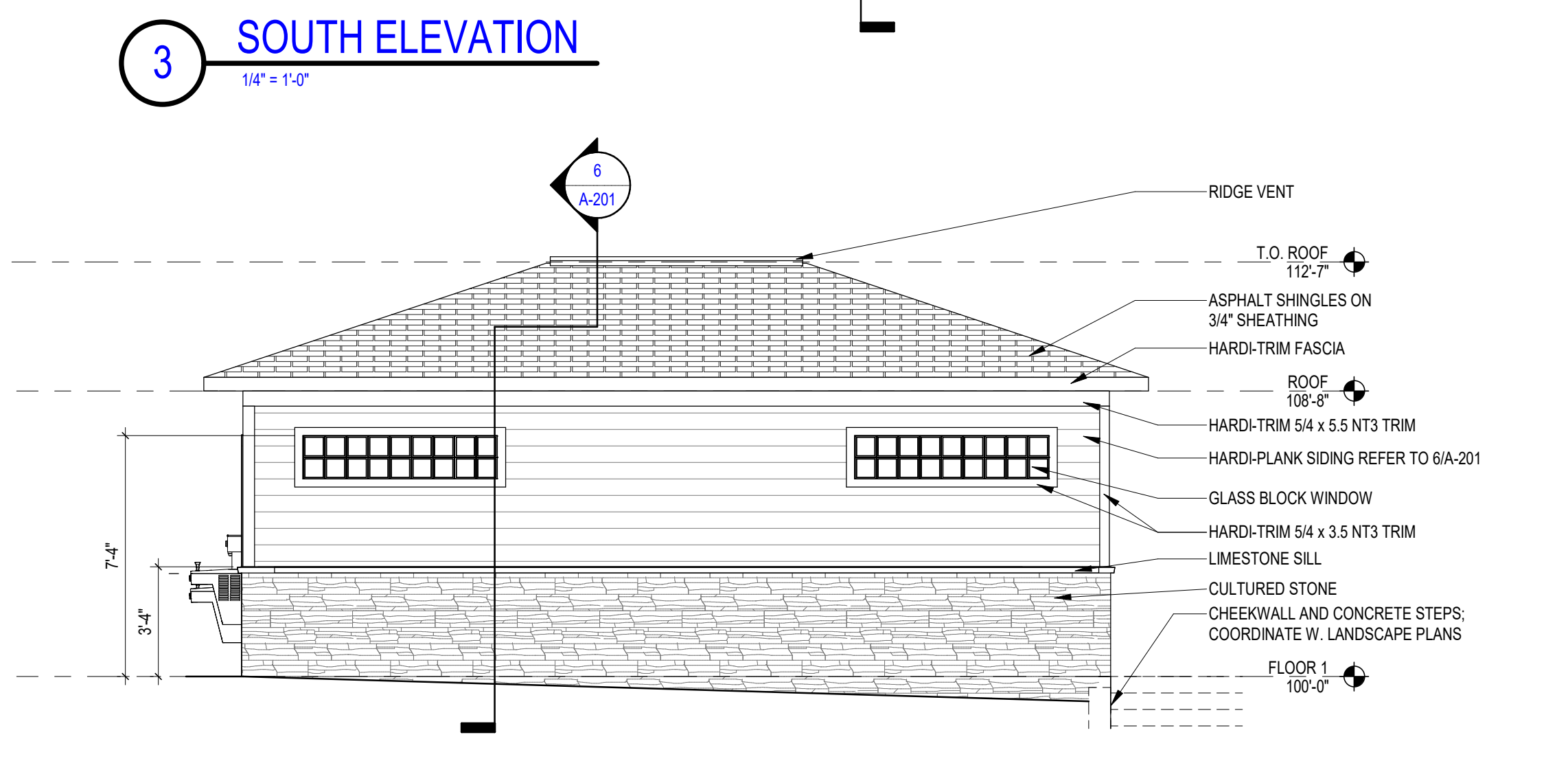
4 WEST ELEVATION 1/4" = 1'-0"



3 SOUTH ELEVATION 1/4" = 1'-0"



2 EAST ELEVATION 1/4" = 1'-0"



1 NORTH ELEVATION 1/4" = 1'-0"



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REVISIONS

NO.	DATE	DESCRIPTION

SCALE: As Indicated

MUNICIPALITY: Oakland

COUNTY: Oakland

CADD: ML

PROJ. MGR: LA

DATE: 04/02/2019 09:50:17:00:20

CITY OF ROCHESTER HILLS
 AUBURN ROAD RECONSTRUCTION

ELEVATIONS AND BUILDING SECTIONS

SHEET: A-201

P-0166_020010190170020_Auburn_Road_ReconstructionDrawingsArch\LA-Rev\A_ARSP_Splashpad Restrooms_2019_CEN.dwg

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