TOYOTA PARK TRANSIT CENTER - PHASE II

EXHIBIT I:
CONSTRUCTION
DRAWINGS

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P400	PLUMBING DETAILS

7000 SOUTH HARLEM AVENUE BRIDGEVIEW, ILLINOIS 60455







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SITE LOCATION MAP
SCALE: N.T.S

CESAR A. SANTOY 001-019755

11/27/2017

SIGNED DATE

SIGNED DATE

IL LIC#: 001-019755 EXP. DATE: 11.30.18

"I CERTIFY THAT THESE DRAWINGS WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND CONTROL AND TO THE BEST OF MY KNOWLEDGE AND BELIEF COMPLY WITH THE REQUIREMENTS OF THE LOCAL MUNICIPAL BUILDING CODE."

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FINAL DESIGN - NOVEMBER 27, 2017

BUILDING REQUI	REMENTS					
PROJECT OVER\	ΊΕW:					
PROJECT NUMBER	- SA13; UWP	21306				
PROJECT NAME		RK TRANSIT CENTER- PHAS	E II			
BUILDING DESCRIPTION		NTER BUS STOP; CANOPY A				
LOCATION		•	112 17 11 11 C C1 7 CC			
200/111011	7000 S. HAR	TOYOTA PARK 7000 S. HARLEM AVENUE BRIDGEVIEW, IL 60455				
GOVERNING COI	DES:					
ZONING	-					
BUILDING	2015- IBC	†				
STRUCTURAL	STRUCTURA	AL -2015 IBC				
MECHANICAL	MECHANICA					
ELECTRICAL		GO ELECTRICAL CODE				
PLUMBING		IS PLUMBING CODE				
FIRE PROTECTION	2015 IFC.					
NFPA R		RED OVER 10K S.F.				
ACCESSIBILTY	IBC-2015, IA					
	-,					
BUILDING CODE	S:	REQUIRED/ ALLOWED	ACTUAL/ PROPOSED	REMARKS		
BUILDING GROUP CLAS	SIFICATION	A3	A3	REMARKS SEC 303.1		
BUILDING GROUP CLAS OCCUPANCIES WITHIN	SIFICATION	A3 A3	A3 A3			
BUILDING GROUP CLAS OCCUPANCIES WITHIN CONSTRUCTION TYPE	SIFICATION	A3 A3 IIB	A3 A3 IIB	SEC 303.1		
BUILDING GROUP CLAS OCCUPANCIES WITHIN CONSTRUCTION TYPE	SIFICATION	A3 A3	A3 A3		2,400 (24'x98' ROOF CANOPY)	
BUILDING GROUP CLAS OCCUPANCIES WITHIN CONSTRUCTION TYPE BUILDING AREA BUILDING HEIGHT	SIFICATION	A3 A3 IIB 9,500 SF	A3 A3 IIB	SEC 303.1 SEC 503	2,400 (24'x98' ROOF CANOPY)	
BUILDING GROUP CLAS OCCUPANCIES WITHIN CONSTRUCTION TYPE BUILDING AREA BUILDING HEIGHT STORIES	SIFICATION BUILDING	A3 A3 IIB 9,500 SF	A3 A3 IIB 224 (14'x16' ENCLOSURE) 17'-8" 1	SEC 303.1 SEC 503 SEC 503	2,400 (24'x98' ROOF CANOPY)	
BUILDING GROUP CLAS OCCUPANCIES WITHIN CONSTRUCTION TYPE BUILDING AREA BUILDING HEIGHT STORIES	SIFICATION BUILDING	A3 A3 IIB 9,500 SF	A3 A3 IIB 224 (14'x16' ENCLOSURE)	SEC 303.1 SEC 503	2,400 (24'x98' ROOF CANOPY)	
BUILDING GROUP CLAS OCCUPANCIES WITHIN CONSTRUCTION TYPE BUILDING AREA BUILDING HEIGHT STORIES AUTOMATIC SPRINKLER	SIFICATION BUILDING R SYSTEM	A3 A3 IIB 9,500 SF - 2 NOT REQUIRED	A3 A3 IIB 224 (14'x16' ENCLOSURE) 17'-8" 1 N/A	SEC 303.1 SEC 503 SEC 503 SEC 903.2.1.3	2,400 (24'x98' ROOF CANOPY)	
BUILDING GROUP CLAS OCCUPANCIES WITHIN CONSTRUCTION TYPE BUILDING AREA BUILDING HEIGHT STORIES AUTOMATIC SPRINKLER OCCUPANCY CALCULA SEMI-ENCLOSED WAITI	SIFICATION BUILDING R SYSTEM	A3 A3 IIB 9,500 SF	A3 A3 IIB 224 (14'x16' ENCLOSURE) 17'-8" 1	SEC 303.1 SEC 503 SEC 503	2,400 (24'x98' ROOF CANOPY)	
BUILDING GROUP CLAS OCCUPANCIES WITHIN CONSTRUCTION TYPE BUILDING AREA BUILDING HEIGHT STORIES AUTOMATIC SPRINKLES OCCUPANCY CALCULA SEMI-ENCLOSED WAITI UTILITY	SIFICATION BUILDING R SYSTEM	A3 A3 IIB 9,500 SF - 2 NOT REQUIRED	A3 A3 IIB 224 (14'x16' ENCLOSURE) 17'-8" 1 N/A	SEC 303.1 SEC 503 SEC 503 SEC 903.2.1.3	2,400 (24'x98' ROOF CANOPY)	
BUILDING GROUP CLAS OCCUPANCIES WITHIN CONSTRUCTION TYPE BUILDING AREA BUILDING HEIGHT STORIES AUTOMATIC SPRINKLES OCCUPANCY CALCULA SEMI-ENCLOSED WAITI UTILITY MEANS OF EGRESS:	SIFICATION BUILDING R SYSTEM	A3 A3 IIB 9,500 SF - 2 NOT REQUIRED	A3 A3 IIB 224 (14'x16' ENCLOSURE) 17'-8" 1 N/A	SEC 303.1 SEC 503 SEC 503 SEC 903.2.1.3	2,400 (24'x98' ROOF CANOPY)	
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BUILDING GROUP CLAS OCCUPANCIES WITHIN CONSTRUCTION TYPE BUILDING AREA BUILDING HEIGHT STORIES AUTOMATIC SPRINKLES OCCUPANCY CALCULA SEMI-ENCLOSED WAITI UTILITY MEANS OF EGRESS: NUMBER OF EXITS EXIT TRAVEL DISTANCE	SIFICATION BUILDING R SYSTEM FION NG AREA	A3 A3 IIB 9,500 SF - 2 NOT REQUIRED 5 SF/ OCCUPANT N/A 200'	A3 IIB 224 (14'x16' ENCLOSURE) 17'-8" 1 N/A 420 SF/ 5SF= 84	SEC 303.1 SEC 503 SEC 503 SEC 903.2.1.3 TABLE 1004.1.2	2,400 (24'x98' ROOF CANOPY)	
BUILDING GROUP CLAS OCCUPANCIES WITHIN CONSTRUCTION TYPE BUILDING AREA BUILDING HEIGHT STORIES AUTOMATIC SPRINKLER OCCUPANCY CALCULA SEMI-ENCLOSED WAITI UTILITY MEANS OF EGRESS: NUMBER OF EXITS EXIT TRAVEL DISTANCE DOOR WIDTH	SIFICATION BUILDING R SYSTEM FION NG AREA	A3 A3 IIB 9,500 SF - 2 NOT REQUIRED 5 SF/ OCCUPANT	A3 A3 IIB 224 (14'x16' ENCLOSURE) 17'-8" 1 N/A 420 SF/ 5SF= 84 N/A N/A > 16'	SEC 303.1 SEC 503 SEC 503 SEC 903.2.1.3 TABLE 1004.1.2 TABLE 1015.1 TABLE 1015.1	2,400 (24'x98' ROOF CANOPY)	
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GENERAL NOTES:

1. DETAILS SHOWN ARE INTENDED TO BE INDICATIVE OF THE PROFILES AND TYPE OF DETAILING REQUIRED FOR THE WORK.

2. NOTES AND REFERENCES APPEAR ON VARIOUS SHEETS FOR DIFFERENT SYSTEMS AND CONSTRUCTION MATERIALS. ALL SHEETS ARE TO BE REVIEWED AND NOTES ON ANY SHEETS ARE APPLICABLE TO RELATED DRAWINGS AND DETAILS

3. ALL JOINTS OF ANY ELEMENT OF CONSTRUCTION WHICH ARE REQUIRED TO HAVE A FIRE RESISTANCE RATING SHALL BE INSTALLED PER THE MANUFACTURER'S PUBLISHED TESTED ASSEMBLY, SHALL BE TIGHT, AND SHALL PREVENT THE PASSAGE OF SMOKE AND FLAME.

4. ALL EXTERIOR JOINTS AROUND WINDOWS AND DOOR FRAMES, BETWEEN WALLS AND ROOF, AND AT THE PENETRATION OF THE EXTERIOR WALL WITH MECHANICAL, ELECTRICAL, AND/OR PLUMBING ELEMENTS SHALL BE SEALED OR WEATHERSTRIPPED TO PREVENT AIR LEAKAGE.

5. PROVIDE CONTROL JOINTS IN THE GYPSUM BOARD CONSTRUCTION SUCH THAT FURRING RUNS DO NOT EXCEED 30'-0" IN EITHER DIRECTION WITHOUT PERIMETER RELIEF.

6. ALL DISSIMILAR METALS SHALL BE EFFECTIVELY ISOLATED FROM EACH OTHER TO PREVENT MOLECULAR BREAKDOWN.

7. PROVIDE ACCESS PANELS AT ALL CONCEALED SHUT OFF VALVES FOR ALL CODE REQUIRED ACCESS PANELS. WHERE SHOWN ON DRAWINGS.

8. DIMENSIONS SHALL GOVERN. DO NOT SCALE DRAWINGS. THE CONTRACTOR SHALL NOTIFY THE PACE REPRESENTATIVE IN WRITING OF ANY DISCREPANCIES, OMISSIONS AND/OR CONFLICTS.

9. ALL DIMENSIONS SHALL BE VERIFIED ON SITE BEFORE PROCEEDING WITH THE WORK.

10. PARTITIONS ARE DIMENSIONED TO THE FINISHED FACE OF THE WALL U.N.O.

11. SEE ROOM FINISH SCHEDULES FOR APPLIED FINISHES (TILE, WALL COVERING, PAINT, ETC.)

12. THE FLAME SPREAD RATING FOR ALL MATERIALS SHALL CONFORM TO ALL APPLICABLE CODES.

13. PROVIDE FOR VERTICAL MOVEMENT AT HEAD OF ALL GYPSUM BOARD CONSTRUCTION. IN GYP. BOARD CONSTRUCTION CONNECT THE HEAD RUNNER CHANNEL TO UNDERSIDE OF STRUCTURE, CUT STUDS TO ALLOW FOR VERTICAL MOVEMENT AND DO NOT FASTEN TO RUNNER CHANNEL, FASTEN GYP. BOARD TO STUDS ONLY.



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M.E.P Engineer
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Issuance	
Mark Description	Date
FINAL DESIGN	11.27.2

TRANSIT CENTER
PHASE II
7000 S. HARLEM AVE.

TOYOTA PARK

BRIDGEVIEW, IL 60455

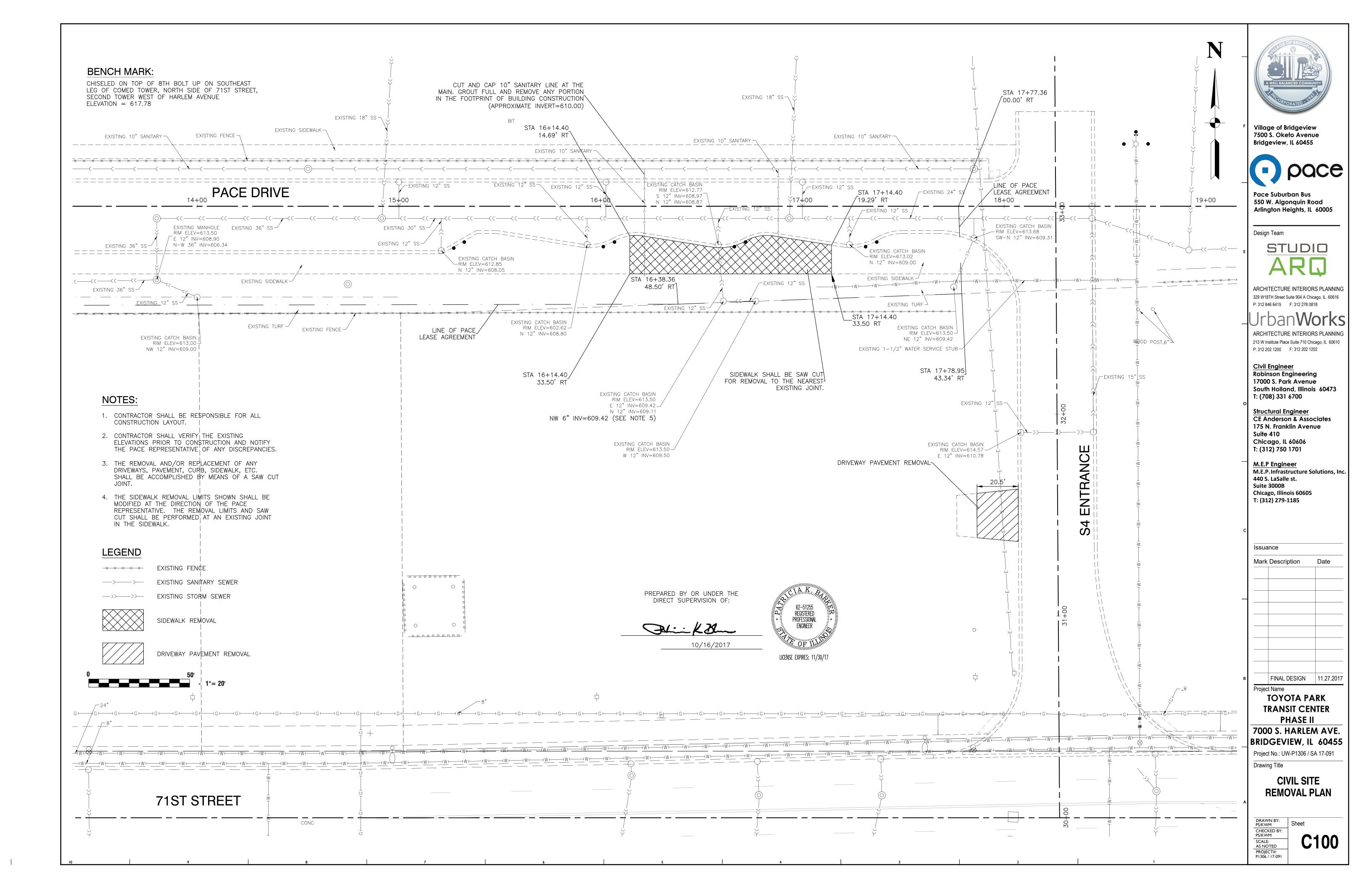
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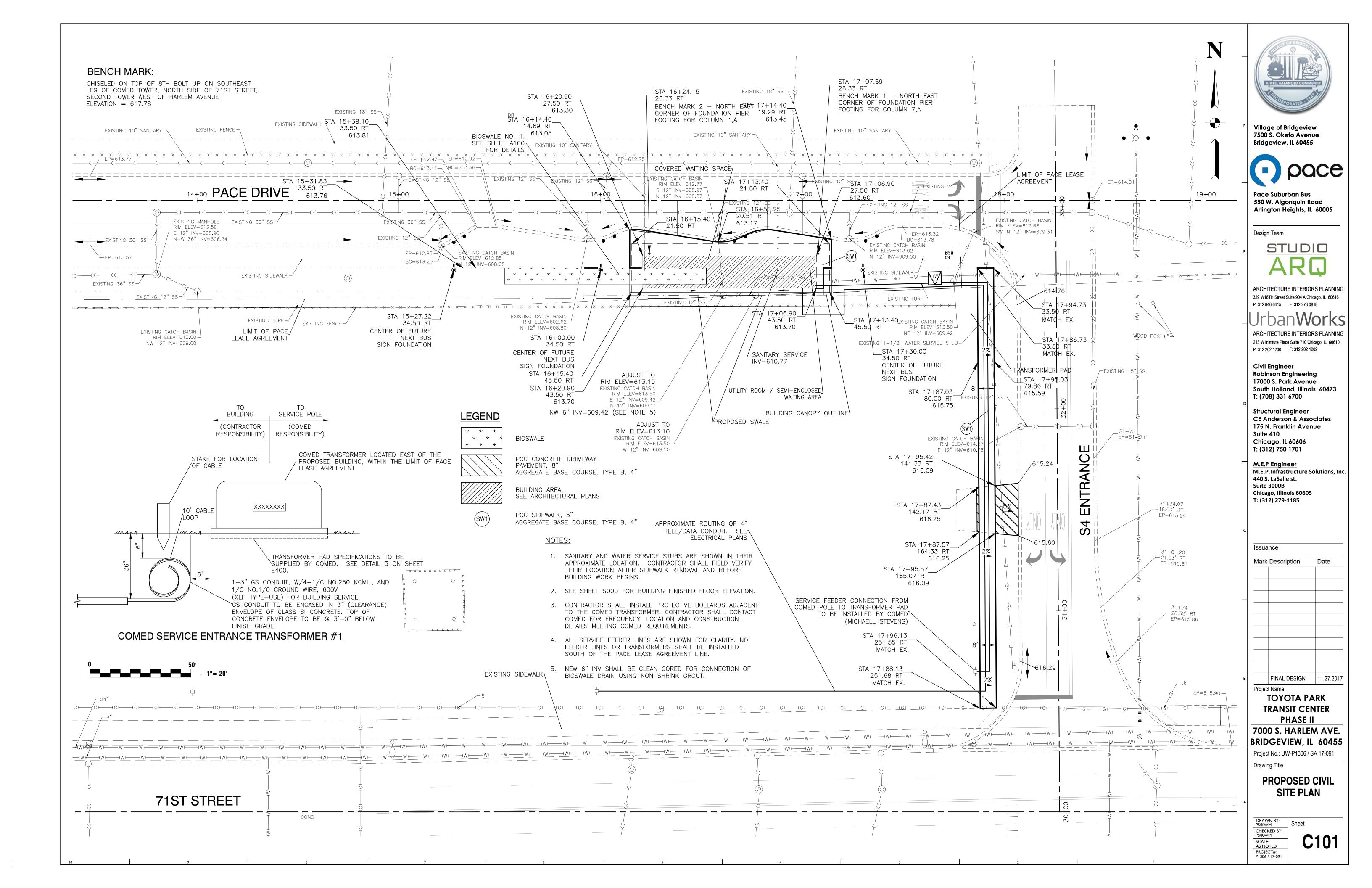
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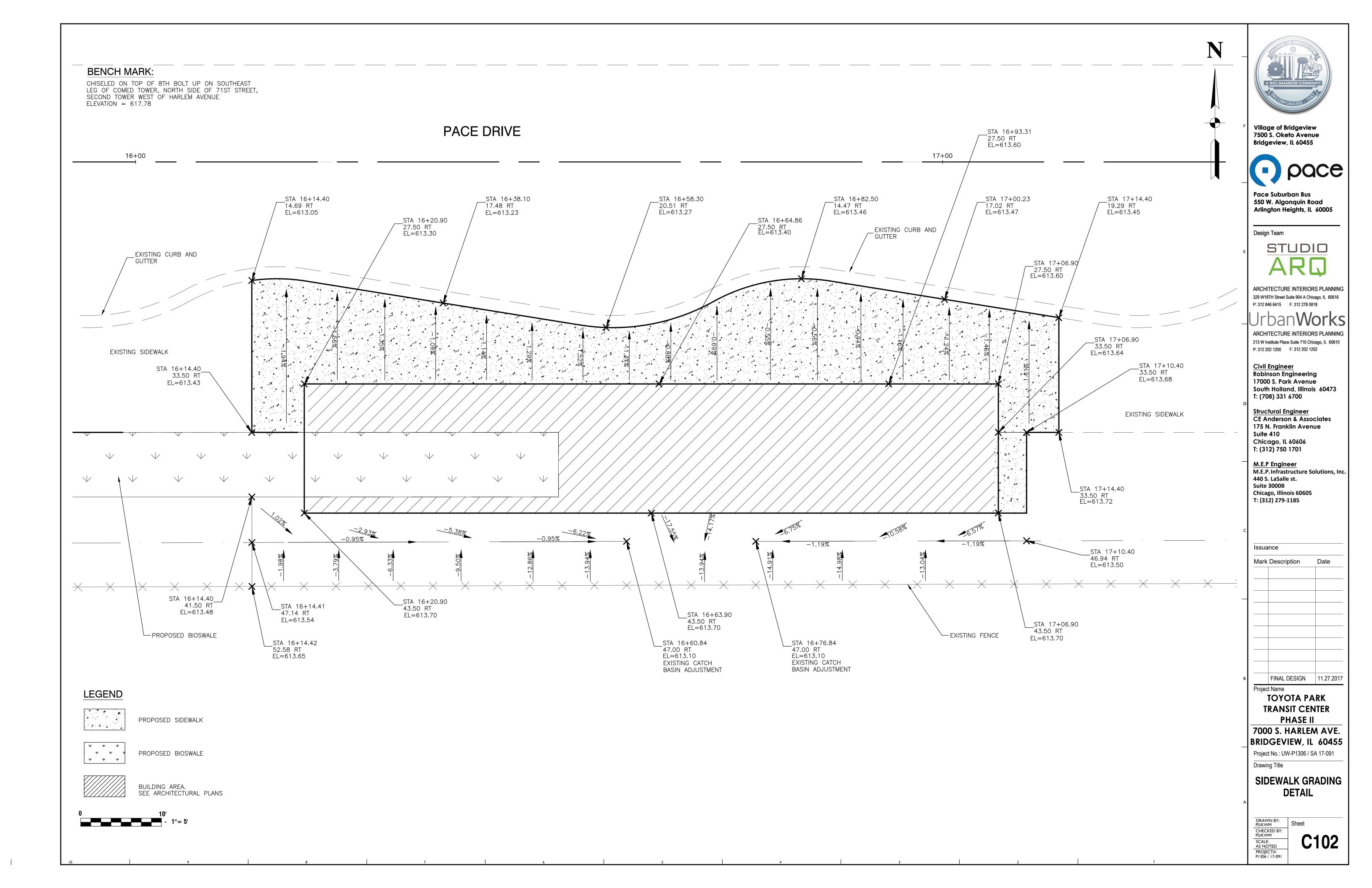
CODE MATRIX/ GENERAL NOTES

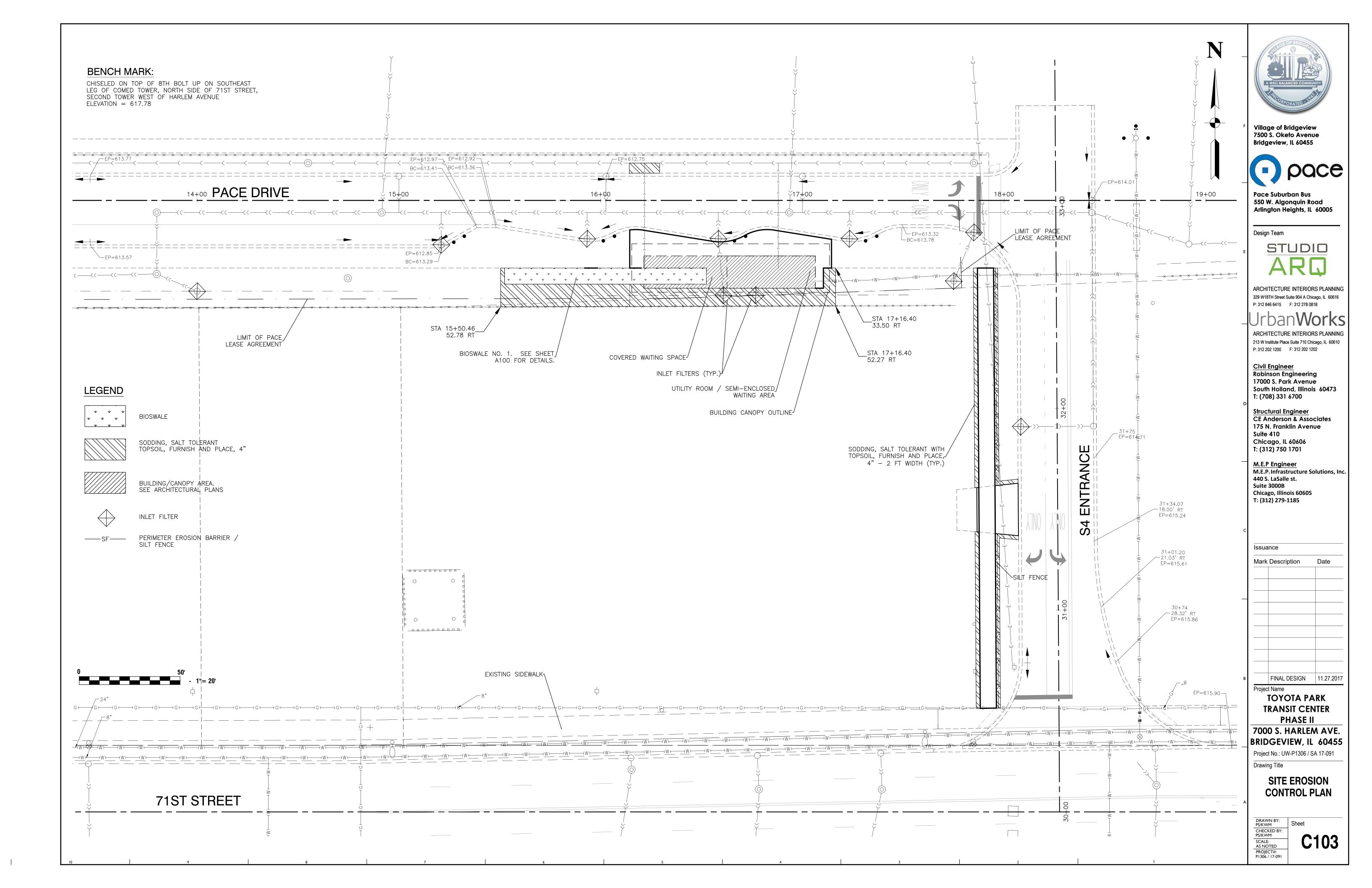
CHECKED BY:

SCALE:
AS NOTED
PROJECT#:
P1306 / 17-091









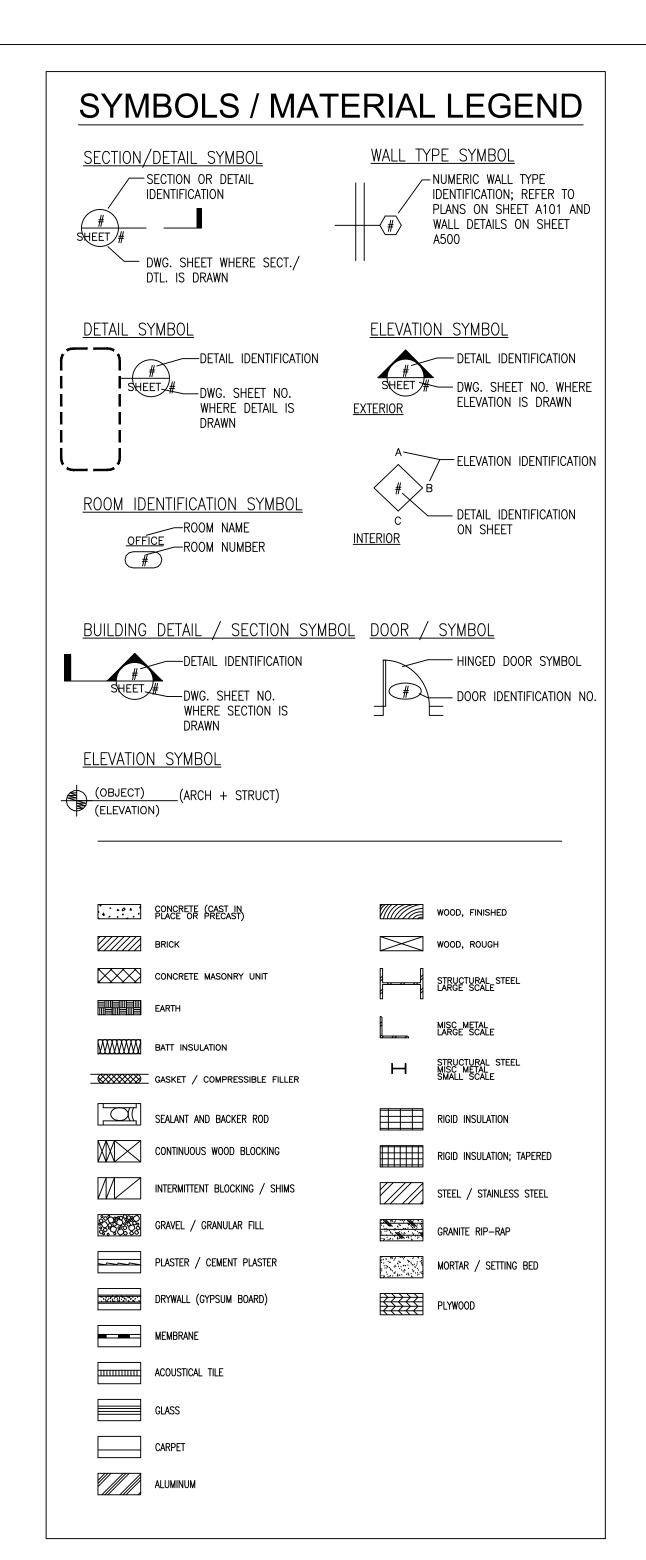
ABBREVIATIONS Anchor Bolt FHS Fire Hose Station PSF Pounds per Square Foot A/C FIN PSI Air Conditioner Finish Pounds per Square Inch FIXT ACP Fixture(s) Aluminum Composite Panel FLR PTD Painted finish AD Floor Area Drain FLSHG **PWH** Phillips Wafer Head Flashing ADA Americans with Disabilities Act FF & E Furniture Furnishings and Equipment ADA Accessible ADAA QT Quarry Tile F.F.E Finished Floor Elevation ADAAG ADA Accessibility Guidelines QTY Quality FR From Adjustable or Adjacent ADJ QUANT Quantity FT. Foot AFF Above Finish Floor F.T. Fire Treated Riser ALS Acrylic Latex Sealant FTG Footing RAD Radius ALT Alternate GΑ Gauge RAD COVER Fin-Tube Radiator Cover **ALUM** Aluminum GALV Galvanized RB Resilient Base ANOD Anodized GB Grab Bar Roof Drain AOR Architect of Record GC **General Contractor** REC Recessed AP Access Panel GFCMU Ground Faced Concrete Masonry Unit(s) REF Reference **APPROX** Approximately GL Glass REF/FRZR APT Refrigerator / Freezer Apartment GRND Ground REINF Reinforced ARCH Architectural GSF Gross Square Foot / Feet REQ'D Required AS **Acoustical Sealant** GYP Gypsum RET Return(ed) ASSOC Associated **GWB** Gypsum Wall Board REV Revision ΑT Acoustic Tile RM Room Height ATTEN Attenuation RO HB Rough Opening Hard Board SAFB HC Sound Attenuation Fire Blanket Hollow Core Bottom Of SC Solid Core HD Hot-Dipped (galvanized) B-MARK Benchmark SDS Self Drilling Screw **HDWR** BD Board Hardware SECT HNCG Section BEJ Hollow Neoprene Compression Gasket **Building Expansion Joint** SGT Structural Glazed Tile BOT Bottom HORIZ Horizontal SHLVG. Shelving BJF Bituminous Joint Filler НМ Hollow Metal SHT Sheet BLDG Building High Point SHTG Sheeting BLK Block Hour SIM Similar BLKG Blocking HT Height SPEC Specification BM Beam HTG Heating SPRKLR Sprinkler BMT **Butylmastic Tape Sealant** Hex Washer Head SQ Square BRK Brick Square feet BRS **Butyl Rubber Sealant** Illinois Accessibility Code SQ IN Square Inches BTWN Between That is SS Stainless Steel Inside Diameter Sealant Tape C/C Center to Center STC Sound Transmission Coefficient C/C Center to Center INCL Include(ing) STD Standard CAB Cabinet INFO Information STL Steel CCTV Closed Circuit Television INSUL Insulat(ed), (ion) STOR Storage CB Catch Basin J-BOX STL Janitor's Closet Steel CF Cubic Foot / Feet STOR JC Junction Box Storage CFRG Ceramic Fire Rated Glass / Glazing STRUCT Structural Joint CJ Control Joint (CONCRETE, CMU) SURF Surface CJF Cork Joint Filler KIT Kitchen SUSP Suspended CL Center Line Length, Long Sheet Vinyl CLG Ceiling LAM Laminated CLO Closet LAV Lavatory Tread CLR Clear Opening LBL Label Top of CLSRM Classroom LF Lineal Foot / Lineal Feet T+G Tongue and Groove COL Column Low Point Towel Bar CONC Concrete Living Room TEL Telephone CONCP Concrete Painted Limestone TERR Terrazzo COND Condition LT Light THK Thick(ness) CONST Construction LVL Level Traffic Topping CONTR Contractor TYP Typical CONT Continuous Masonry CORR Corridor MACH Machine UL Underwriters Laboratory CPT Carpet (Wall to Wall) MATL Material(s) U.N.O. Unless Noted Otherwise CMU Concrete Masonry Unit MAX Maximum UR CMUP CMU Painted MDF Medium Density Fiberboard UTIL Utility(ies) CO Clean Out MECH Mechanical COORD Coordinate MED Medium CT Ceramic Tile MEP Mech., Elec. & Plbg. VB Vinyl wall Base MFR Manufacturer VCT Vinyl Composition Tile DEMO Demolition / Demolish MH Manhole **VERT** Vertical DES Design MIN Minimum VEST Vestibule DF Drinking Fountain MISC Miscellaneous VIF Verify In Field DH Double Hung MO **Masonry Opening** Vapor Retarder DIA Diameter MR Moisture Resistant **VWB** Vinyl Wall Base DIM Dimension MTD Mounted **VWC** Vinyl Wall Covering DN Down MTL Metal DS Down Spout MULL Mullion DTL Detail MV Water Meter Vault W/O Without DWG Drawing NC Noise Criteria WC Water Closet DWM Department of Water Managment NFWH Non-Freeze Wall Hydrant WD Wood NIC Not In Contract Window(s) WIN EΑ Each NO Number Work Point EC Exposed Construction / Electrical Contractor NOM Nominal Waterproofing ECP **Exposed Construction Painted** NRC Noise Reduction Coefficient Water Resistant **EFTS** Expanding Foam Tape Sealant NTS Not To Scale Weight EIFS Exterior Insulated Finish System EJ OA Expansion Joint (Brick masonry) Overall EL Elevation OC ELEC Electric(al) On Center ELEV OD Outside Diameter Elevation / Elevations EM ОН Overhead Emergency ENCL. OPEN'G Opening Enclosure OPP EQ Eqivalent Opposite ETC Et cetera PART Partition EX Existing PBMR Pre-shimmed Butyl Mastic EXH Exhaust PERP Perpendicular EXIST'G Existing PLPlastic or Plate EXP Expansion PL LAM Plastic Laminate EXT Exterior PLBG Plumbing FACP Fire Alarm Control Panel PLWD Plywood FD Floor Drain PNL Panel FDC Fire Department Connection PR Pair FDTN Foundation Prefabricated PREFAB FE ABC Fire Extinguisher (Surface Mounted) PREFIN Prefinished

FEC

ABC Fire Extinguisher +Cabinet, rated as req'd

PREP

Prepare / Preparation





Village of Bridgeview 7500 S. Oketo Avenue Bridgeview, IL 60455



Pace Suburban Bus 550 W. Algonquin Road Arlington Heights, IL 60005

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B FINAL DESIGN 11.27.2017
Project Name

TOYOTA PARK
TRANSIT CENTER
PHASE II

7000 S. HARLEM AVE. BRIDGEVIEW, IL 60455

Project No.: UW-P1306 / SA 17-091

ABBREVIATIONS

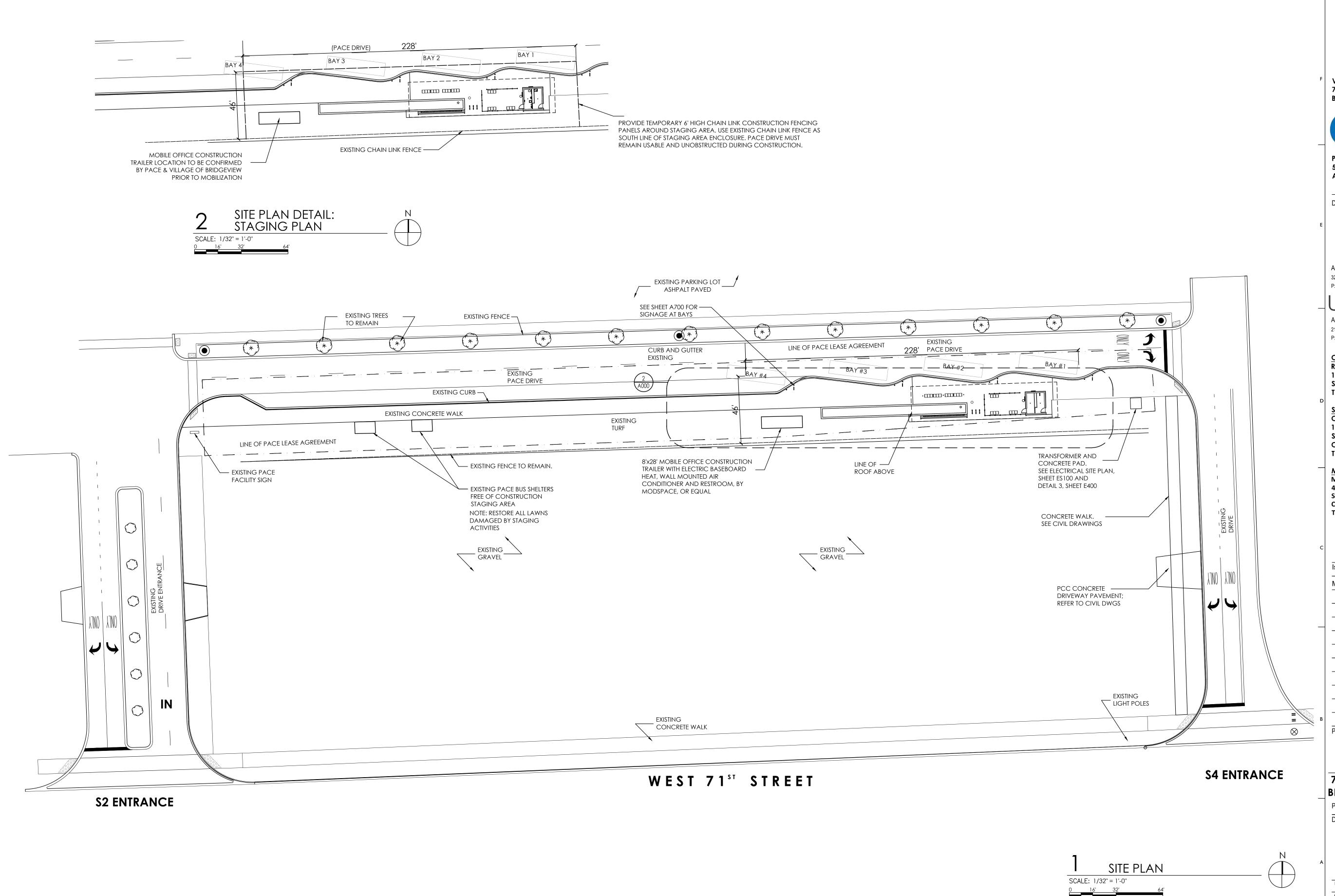
AND SYMBOLS

DRAWN BY: Sheet

SCALE:
AS NOTED
PROJECT#:

Drawing Title

A-00







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	TOYOTA PA	ARK
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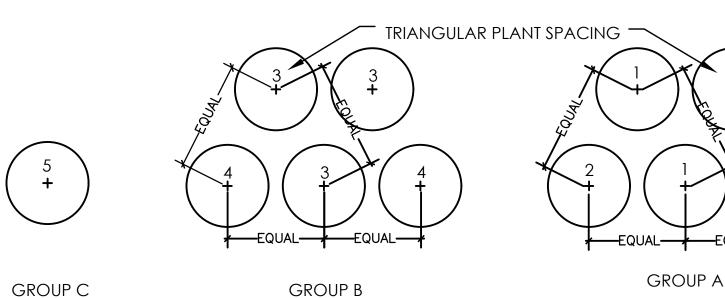
7000 S. HARLEM AVE. BRIDGEVIEW, IL 60455

Project No.: UW-P1306 / SA 17-091 Drawing Title

SITE PLAN

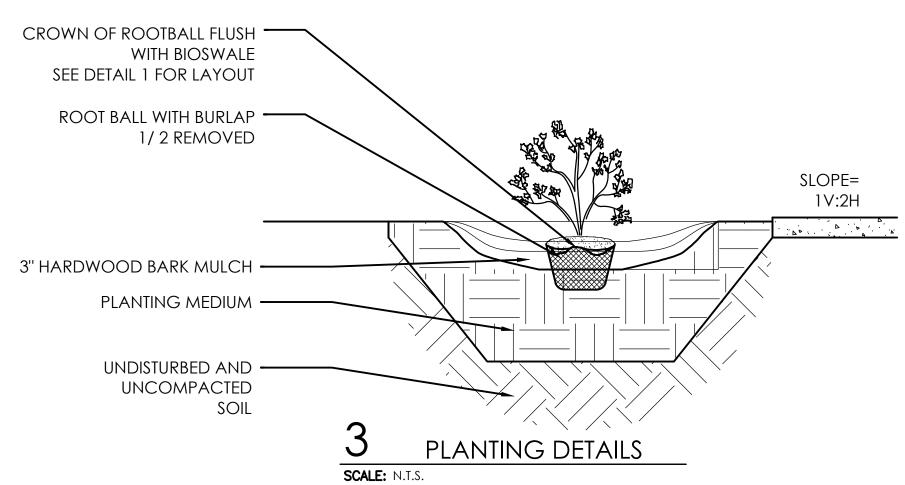
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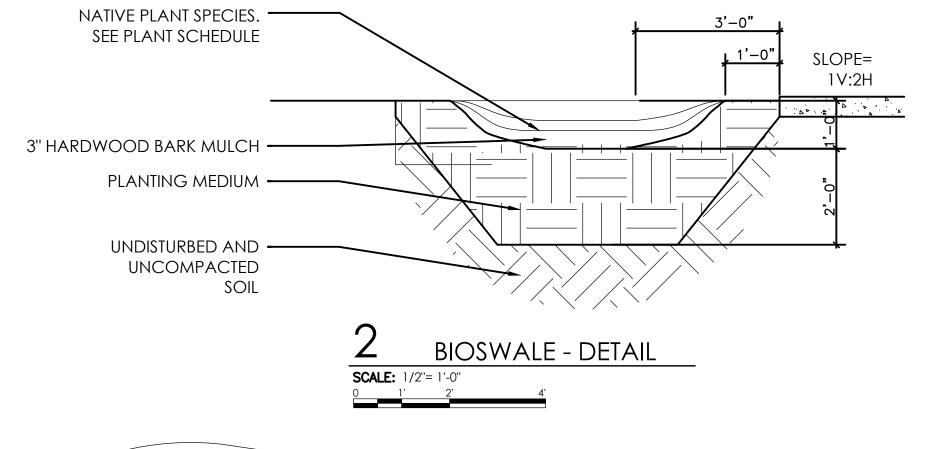
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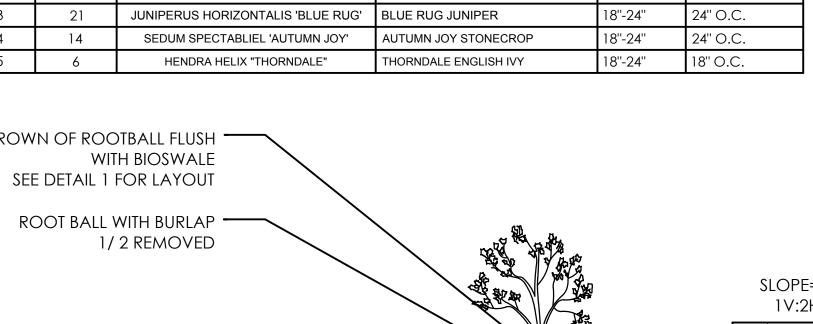


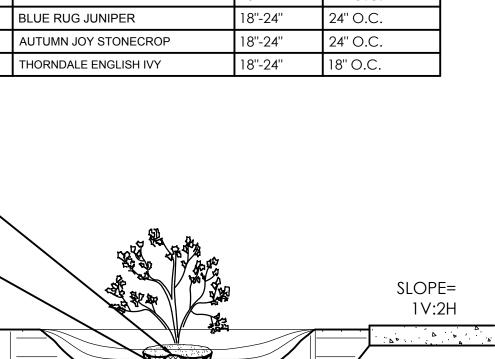
PLANTING PLAN DIAGRAMS

	PLANTING SCHEDULE					
PLANT #	QUANTITY	BOTONICAL NAME	COMMON NAME	SIZE	SPACING	
1	12	ASTILBEX ARENDSH 'FINAL'	"FANAL" ASTILBE	12"-18"	24" O.C.	
2	8	NEPETA X FAASSENII	CATMINT	18"-24"	24" O.C.	
3	21	JUNIPERUS HORIZONTALIS 'BLUE RUG'	BLUE RUG JUNIPER	18"-24"	24" O.C.	
4	14	SEDUM SPECTABLIEL 'AUTUMN JOY'	AUTUMN JOY STONECROP	18"-24"	24" O.C.	
5	6	HENDRA HELIX "THORNDALE"	THORNDALE ENGLISH IVY	18"-24"	18" O.C.	

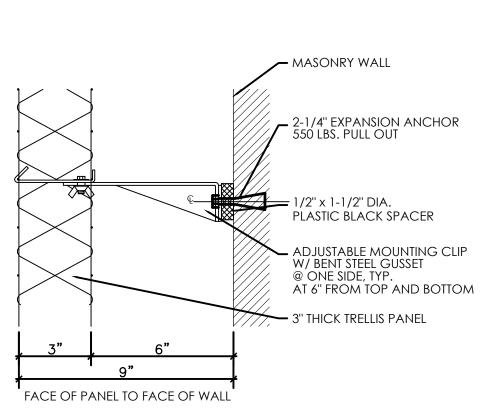








25. REFER TO SHEET C101 FOR EXISTING CONCRETE ELEVATIONS. 26. BIOSWALE ELEVATION IS 13" BELOW T/ CONCRETE SLAB LINE OF **ROOF ABOVE** AREA DRAIN W/ RIM ELEVATION-14GA GALVANIZED STEEL WIRE TRELLIS AT 613.25. SEE SHEET P200 — PANELS, 4'W x 10'L x 3"D W/ POWDER COAT GLOSS GREEN FINISH. SEE PLANT #5 IN PLANT SCHEDULE BIOSWALE ¬ AND DETAIL 5/A100



TRELLIS MOUNTING CLIP **SCALE:** 3"= 1'-0"

GENERAL NOTE:

GE.11

REFERENCE EL: +0'-0" SHALL CORRESPOND WITH

USGS DATUM PER STRUCTURAL SHEET S000 NOTE

CONTRACTOR SHALL VERIFY SITE CONDITIONS BEFORE PROCEEDING WITH WORK AND SHALL REPORT ANY CONFLICT TO PACE REPRESENTATIVE.

2. EXACT LOCATIONS OF ALL UNDERGROUND UTILITIES SHALL BE DETERMINED AND VERIFIED IN THE FIELD BY CONTRACTOR. CONTRACTOR SHALL REPORT ANY CONFLICTS TO PACE REPRESENTATIVE PRIOR TO BEGINNING WORK.

3. THE CONTRACTOR SHALL COORDINATE THIS WORK WITH OTHER TRADES AND MAINTAIN DRAINAGE DURING CONSTRUCTION.

4. CONTRACTOR SHALL KEEP ALL AREAS CLEAN, NEAT AND ORDERLY AT ALL TIMES.

5. CONTRACTOR SHALL PROTECT EXISTING VEGETATION OUTSIDE THE LIMITS OF GRADING. ALL EXISTING PARKWAY TREES AND EXISTING INTERIOR TREES SHALL BE PROTECTED WHILE PROJECT IS UNDER CONSTRUCTION AND SHALL BE REPLACED IF DAMAGED BY CONTRACTOR.

6. CONTRACTOR SHALL INFORM PACE REPRESENTATIVE AS EACH PHASE OF WORK IS UNDERTAKEN.

7. SLOPE ALL PLANTING AREAS TOWARDS AREA DRAIN 1% MINIMUM GRADE.

8. PLANT QUANTITIES AND SPECIES ARE LISTED IN THE PLANTING SCHEDULE.

9. CONTRACTOR IS RESPONSIBLE FOR PROVIDING PLANT MATERIALS AS LISTED IN PLANTING SCHEDULE TO COVER AREAS SHOWN ON PLANS AT THE SPACING INDICATED IN THE PLANTING PLAN DIAGRAM.

10. AT LEAST ONE PLANT OF EACH SPECIES DELIVERED TO THE SITE WILL HAVE AN IDENTIFICATION TAG FROM THE SUPPLYING NURSERY SHOWING COMMON AND BOTANICAL PLANT NAMES. ALL PLANTS SHALL BE PROTECTED AGAINST HEAT, SUN, WIND AND FROST DURING TRANSPORTATION TO THE SITE AND WHILE BEING HELD AT THE SITE. DO NOT STORE PLANTS IN TOTAL DARKNESS MORE THAN ONE DAY.

11. DO NOT DAMAGE PLANT ROOT BALL DURING TRANSPORTATION OR PLANTING.

12. CONTRACTOR SHALL NOTIFY THE PACE REPRESENTATIVE AT THE TIME OF DELIVERY OF ANY PLANT MATERIAL THAT IS DAMAGED OR IN POOR CONDITION TO DETERMINE ACCEPTABILITY.

13. PACE REPRESENTATIVE RESERVES THE RIGHT TO INSPECT ALL PLANT MATERIALS BEFORE PLANTING. MATERIAL MAY BE REJECTED AT ANY TIME DUE TO CONDITION, FORM OR DAMAGE BEFORE OR AFTER PLANTING. CONTRACTOR SHALL STAKE LOCATION OF ALL TREES, HEDGE LINES AND PLANTING BEDS AND HAVE LAYOUT APPROVED BY PACE

14. THE PLANTING PLANS ARE DIAGRAMMATIC. PLANT MATERIALS SHALL BE SPOTTED APPROXIMATELY AS SHOWN ON THE LANDSCAPE DRAWING AND ARE TO BE APPROVED BY THE PACE REPRESENTATIVE BEFORE BEING REMOVED FROM CONTAINERS AND EXCAVATING SOIL FOR PLANTING.

15. INSTALL ALL PLANT MATERIAL IN ACCORDANCE WITH DETAILS. ALL FINISH GRADING AND PLANTING OPERATIONS SHALL BE CARRIED OUT IN ACCORDANCE WITH DRAWINGS.

16. ALL PLANT TYING MATERIAL AND MARKING TAPES SHALL BE REMOVED AT THE TIME OF PLANTING.

17. PROVIDE NEW TOPSOIL THAT IS FERTILE, FRIABLE AND NATURAL LOAM SURFACE SOIL, REASONABLY FREE OF SUBSOIL, CLAY, CLAY LUMPS, BRUSH, WEEDS, AND OTHER LITTER AND FREE OF ROOTS, STUMPS, STONES LARGER THAN 2" IN ANY DIMENSION AND OTHER EXTRANEOUS OR TOXIC MATTER HARMFUL TO PLANT GROWTH. OBTAIN TOPSOIL FROM LOCAL SOURCES OR FROM AREAS HAVING SIMILAR SOIL CHARACTERISTICS TO THAT NECESSARY FOR VIGOROUS GROWTH OF SPECIFIED PLANTINGS. OBTAIN TOPSOIL THAT OCCURS IN A DEPTH OF NOT LESS THAN 6". DO NOT OBTAIN SOIL FROM BOGS OR MARSHES.

18. PLANTING MIX SOILS FOR SHRUB BEDS AND GROUND COVER BEDS SHALL CONSIST OF 75% APPROVED TOPSOIL WITH A HIGH SAND CONTENT AND 25% MUSHROOM COMPOST, PLACED TO THE DEPTHS SHOWN.

19. CONTRACTOR SHALL INSTALL A MIN 3" LAYER OF PREMIUM GRADE SHREDDED HARDWOOD BARK MULCH AND IN ALL GROUNDCOVER / SHRUB AREAS. CREATE A NATURAL SPADED EDGE WHERE PLANTING BEDS MEET TURF AREAS.

20. WATER ALL PLANTS IMMEDIATELY AFTER PLANTING. FLOOD PLANTS TWICE DURING FIRST TWENTY-FOUR HOUR PERIOD OF PLANTING.

21. CONTRACTOR SHALL REPAIR TO ITS ORIGINAL CONDITION ANY AREA OR ITEM DAMAGED AS A RESULT OF THEIR WORK. ANY EXISTING LANDSCAPE INDICATED ON THE APPROVED PLANS THAT IS DAMAGED OR REMOVED DURING DEMOLITION OR CONSTRUCTION SHALL BE REPAIRED AND/OR REPLACED IN KIND AND EQUIVALENT SIZE PER THE APPROVED PLANS. CONTRACTOR SHALL REPAIR AND SOD IN KIND ALL TURF AREAS DAMAGED AS A RESULT OF PROJECT

22. CONTRACTOR TO WARRANTY ALL PLANTS AGAINST DEATH AND DEFECTS INCLUDING UNSATISFACTORY GROWTH, EXCEPT FOR DEFECTS RESULTING FROM NEGLECT BY OWNER, ABUSE OR DAMAGE BY OTHERS OR UNUSUAL PHENOMENON OR INCIDENTS WHICH ARE BEYOND THE CONTRACTOR'S CONTROL.

23. PROTECT SEEDED AREAS AND SLOPES AGAINST EROSION AND SEED LOSS DUE TO BIRDS AND OTHER WILDLIFE BY APPLYING SHORT TERM, BIODEGRADABLE EROSION CONTROL BLANKETS, MATS, AND/OR NETTING AFTER COMPLETION OF SEEDING OPERATIONS. ADHERE TO MANUFACTURER'S SPECIFICATIONS FOR REQUIRED PLACEMENT AND STAKING.

24. SOD SHALL BE A FESCUE/BUFFALO BLEND SOD GROWN ON COMPATIBLE SOILS. PEAT OR SAND GROWN SOD IS NOT ACCEPTABLE. SOD SHALL BE UNIFORMLY CUT, PROTECTED DURING TRANSPORT. AND LAID WITHIN 24 HOURS OF HARVEST. AREAS TO BE SODDED SHALL BE BROUGHT TO CORRECT GRADE WITH THE SPECIFIED TOPSOIL, TILED AS NEEDED, AND RAKED TO REMOVE ROCKS, CLAY CLUMPS, OR OTHER MATERIALS THAT WOULD PREVENT UNIFORM CONTACT WITH THE SOIL. SOD SHALL BE LAID WITH TIGHT JOINTS. SODS ON SLOPES SHALL BE LAID WITH JOINTS PERPENDICULAR TO SLOPE DIRECTION. ALL SOD SHALL BE ROLLED WITH A SUITABLE WEIGHT ROLLER TO PROVIDE UNIFORM CONTACT WITH THE SOIL. THE CONTRACTOR SHALL MAINTAIN SOD UNTIL FINAL ACCEPTANCE OF THE PROJECT.
ANY DEAD SOD SHALL BE REPLACED IMMEDIATELY WITH NEW MATERIAL FROM THE ORIGINAL SOURCE. EX 15-15-15 FERTILIZER SOURCE

LANDSCAPE PLAN



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lssua ——		
Mark	Description	Date
	FINAL DESIGN	11.27.2017
Projed	FINAL DESIGN of Name	11.27.201

TRANSIT CENTER PHASE II

7000 S. HARLEM AVE. BRIDGEVIEW, IL 60455

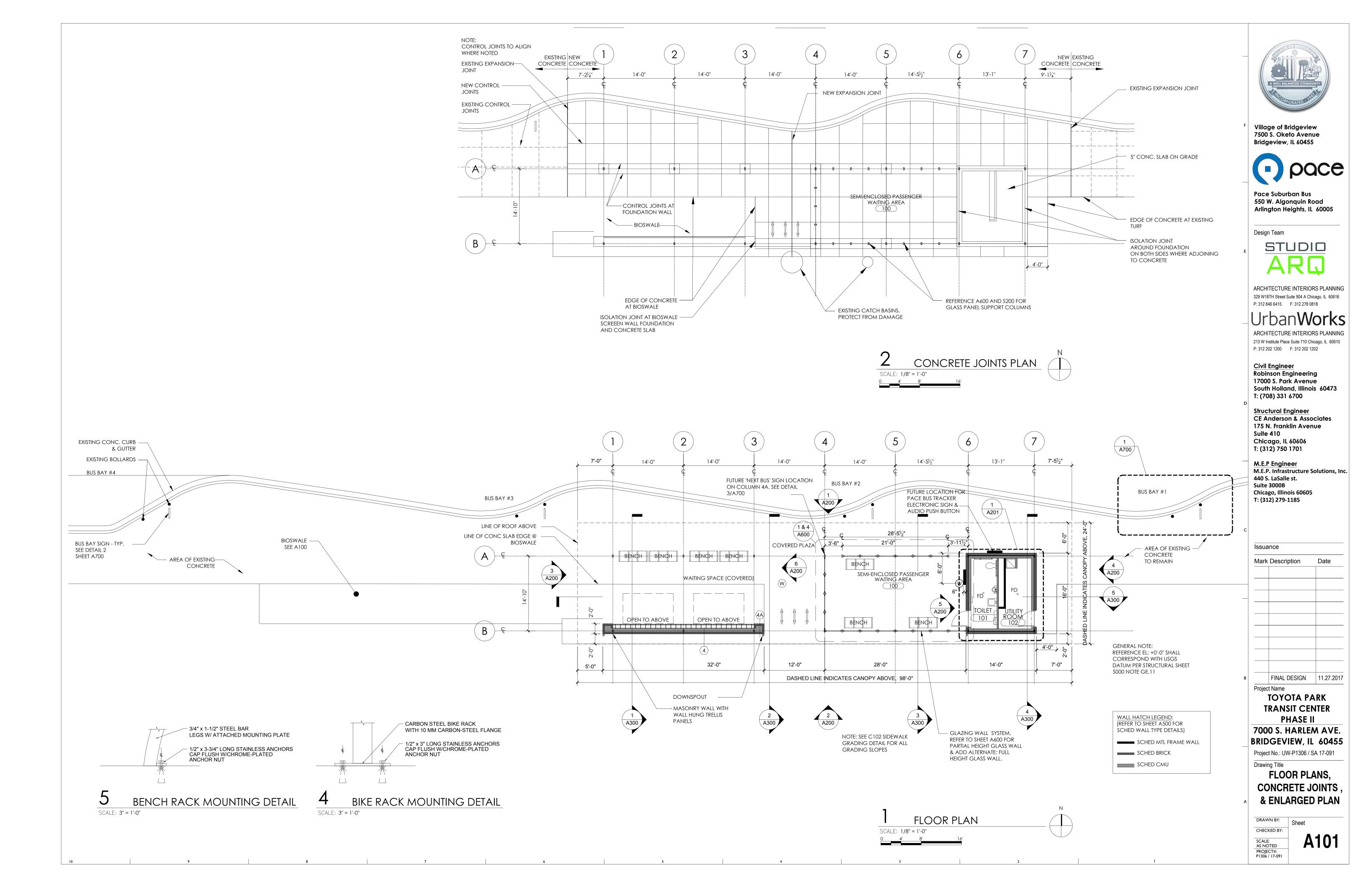
Project No.: UW-P1306 / SA 17-091 Drawing Title

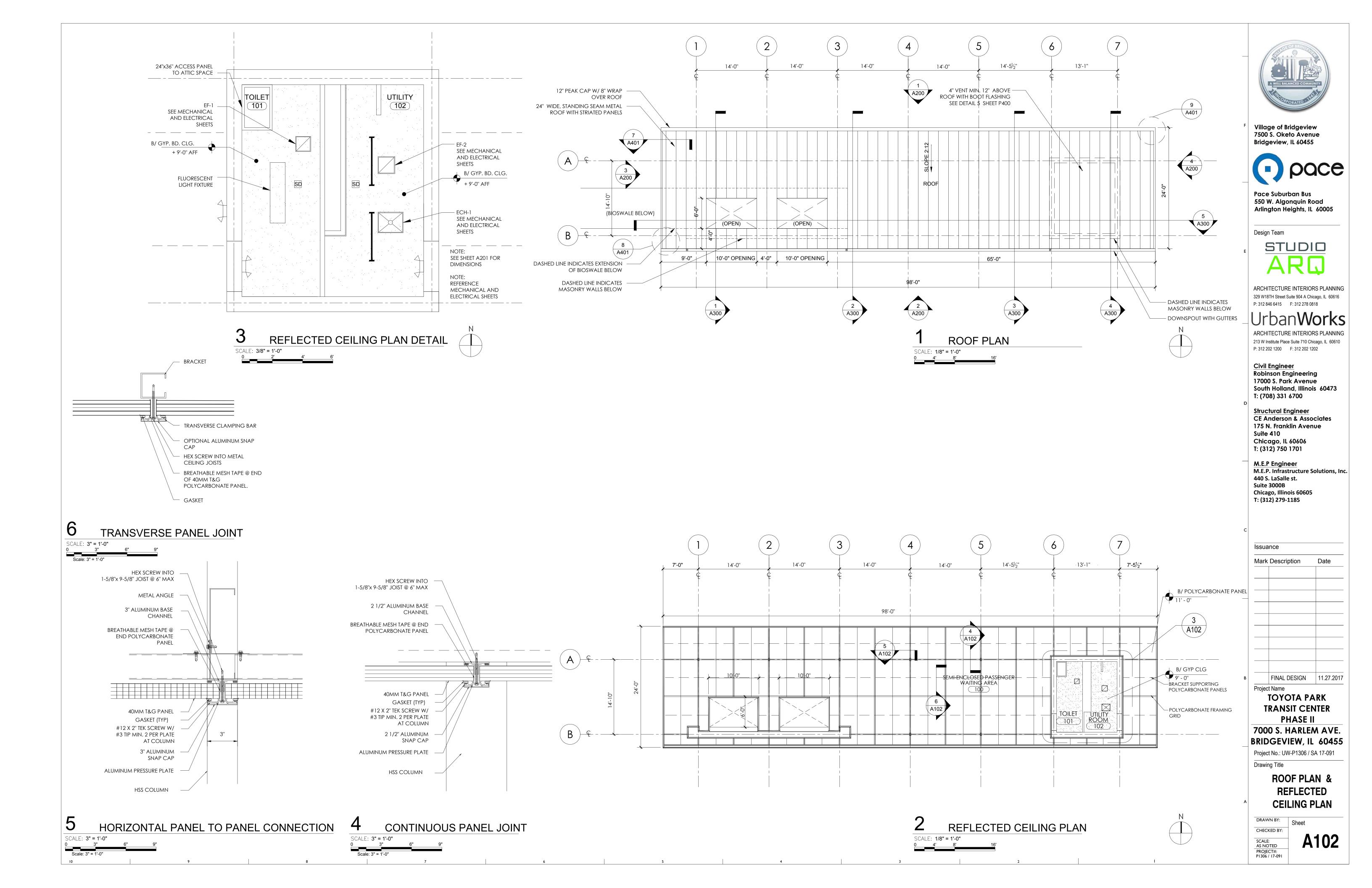
LANDSCAPE PLAN

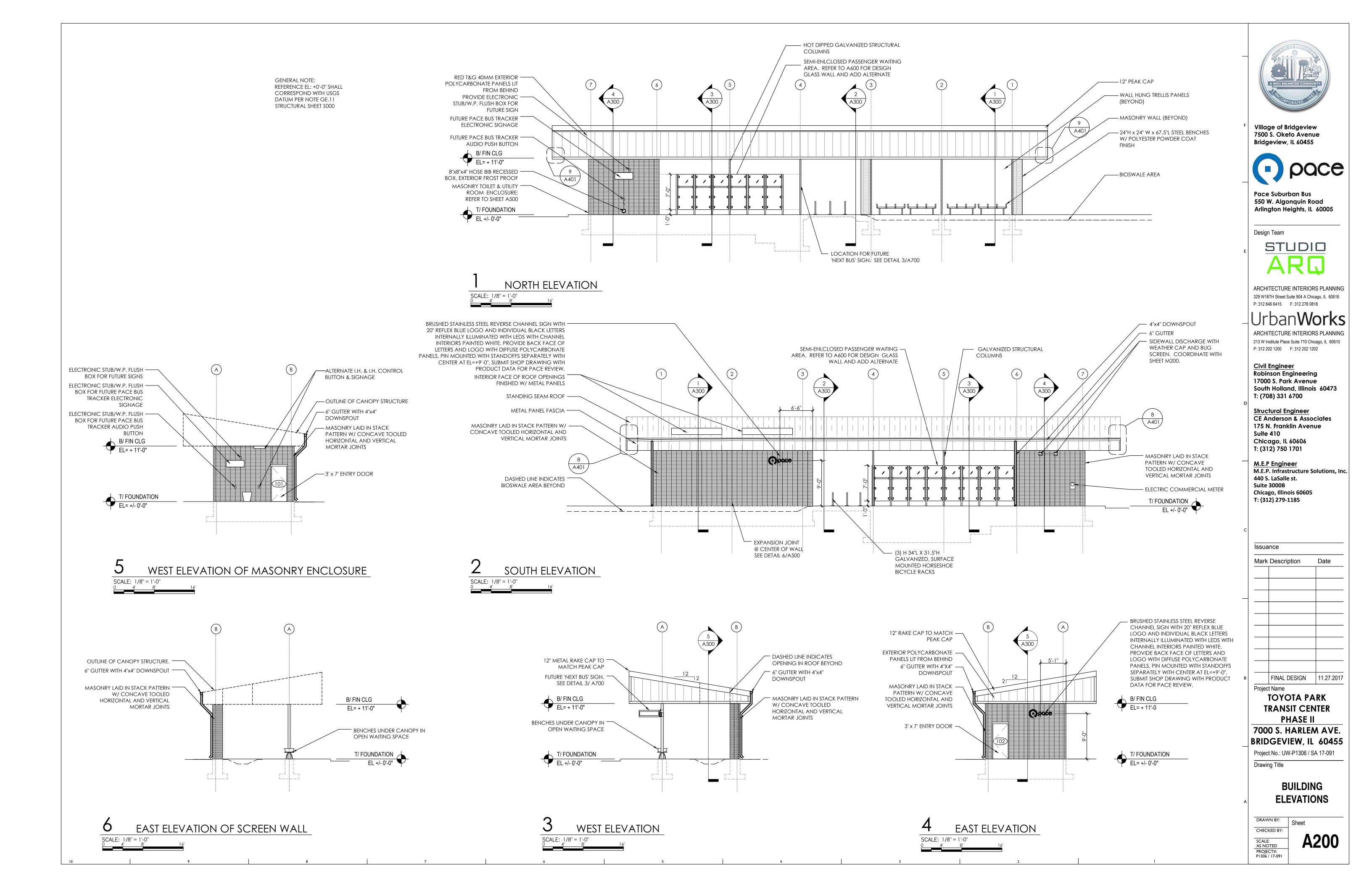
DRAWN BY: CHECKED BY SCALE: AS NOTED PROJECT#:

SEE SHEET C102 FOR GRADING

AND DIMENSIONS







ACCESSIBILITY NOTES

- THE BUILDING ENTRANCE MUST BE ACCESSIBLE. THE ENTRANCE MUST EITHER BE LEVEL, RAMPED OR HAVE LIFT SO THAT IT MAY BE USED BY PEOPLE USING WHEELCHAIRS.
- PUBLIC AND COMMON AREAS MUST BE ACCESSIBLE AND USABLE BY PEOPLE WITH
- 3- INTERIOR DOORS MUST HAVE AT LEAST 32" OF CLEAR SPACE WHEN OPENED TO 90 DEGREES.

ACCESSIBILITY NOTES II

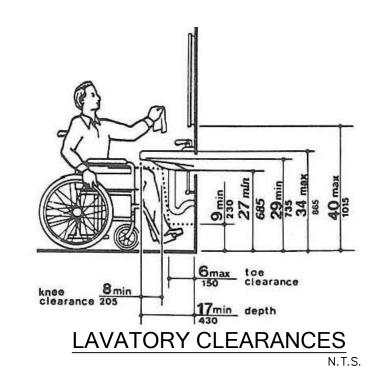
- 1st FLOOR TO COMPLY WITH IAC SEC 400.310 (NEW CONSTRUCTION) WHERE APPLICABLE
- 2- INSULATE ALL EXPOSED PIPING UNDER LAVATORY
- 3- TOILET MUST COMPLY WITH IAC SEC. 400.310(n-o)
- 4- ALL DOORS MUST BE 3'-0" WIDE, LEVER OPERATED HARDWARE & HAVE 18" CLEARANCE ON PULL SIDE & COMPLY W/ IAC SEC 400.310(J)
- 5- SIGNAGE & OTHER INFORMATION SYSTEM MUST BE OF BRAILLE TACTILE & COMPLY TO IAC SEC 400.310(U)
- PROVIDE TACTILE (RAISED LETTERING AND BRAILLE) SIGNAGE STATING "EXIT" AT EACH EXIT DISCHARGE DOOR (IBC 1011.3)
- 2- ALL FLOORING MATERIALS SHALL BE SLIP RESISTANT
- ALL NEW FAUCETS SHALL HAVE WRIST BLADES, LEVER, PUSH, ELECTRONICALLY CONTROLLED OPERATION OR EQUAL
- 4- PROVIDE SIGNAGE INDICATING ACCESSIBILITY IN ACCORDANCE WITH IAC 400.301(U) FOR THE ACCESSIBLE ENTRANCE

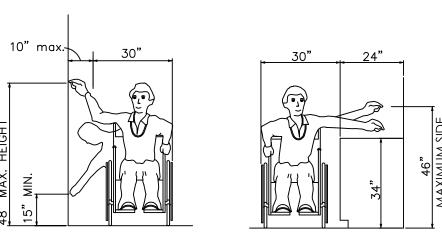
ACCESSIBLE CONTROLS

- LIGHT SWITCHES, ELECTRICAL OUTLETS, THERMOSTATS AND OTHER ENVIRONMENTAL CONTROLS MEET REQUIREMENT IF THE OPERABLE PARTS OF THE CONTROLS ARE NOT HIGHER
- THAN 48 INCHES AND NO LOWER THAN 15 INCHES ABOVE THE FINISH FLOOR. OUTLETS AND OTHER CONTROLS THAT REQUIRE A PERSON TO REACH OVER A COUNTER OR SHELF BETWEEN 22 INCHES AND 25 INCHES DEEP MAY NOT BE MOUNTED HIGHER THAN 44 INCHES ABOVE THE FLOOR FOR FORWARD APPROACH OR 46 INCHES FOR SIDE APPROACH, PROVIDED THE OBSTRUCTION IS NO MORE THAN 24 INCHES IN DEPTH.

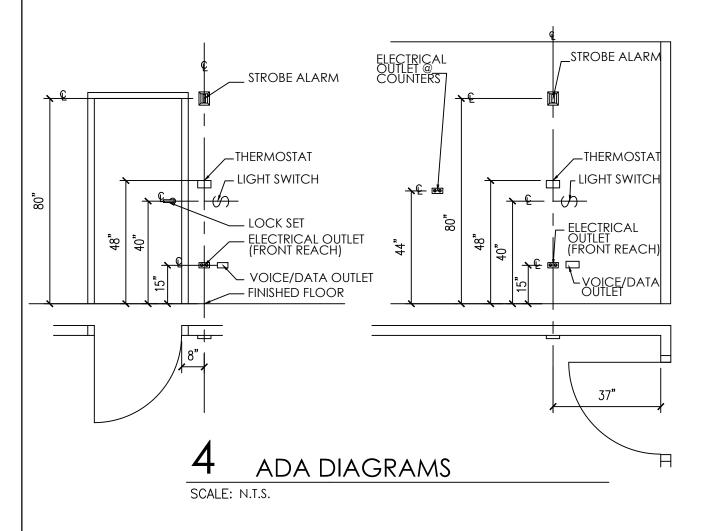
TOILET FACILITY

- DOORS SHALL NOT SWING INTO THE CLEAR FLOOR SPACE OR CLEARANCE FOR ANY FIXTURE.
- REINFORCE WALLS FOR INSTALLATION OF GRAB BARS AROUND THE TOILET. THE FRONT OF LAVATORIES AND SINKS SHALL BE 34 INCHES MAXIMUM ABOVE THE FLOOR,
- MEASURED TO THE HIGHER OF THE RIM OR COUNTER SURFACE. A CLEAR FLOOR SPACE 48 INCHES MINIMUM LENGTH AND 30 INCHES MINIMUM WIDTH
- POSITIONED FOR FORWARD APPROACH, SHALL BE PROVIDED FOR LAVATORIES. WATER SUPPLY AND DRAINPIPES UNDER LAVATORIES AND SINKS SHALL BE INSULATED OR
- OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT.
- THE WATER CLOSET SHALL BE POSITIONED WITH A WALL TO THE REAR AND ONE TO THE SIDE. A CLEARANCE AROUND THE WATER CLOSET OF 60 INCHES MINIMUM, MEASURE PERPENDICULAR FROM THE SIDE WALL, AND 56 INCHES MINIMUM, MEASURED
- PERPENDICULAR FROM THE REAR WALL, SHALL BE PROVIDED.
- THE TOP OF THE WATER CLOSET SEAT SHALL BE 17 INCHES MINIMUM AND 19 INCHES MAXIMUM ABOVE THE FLOOR, MEASURED TO THE TOP OF THE SEAT.
- WR TO BE A 12 GAL, 17-1/8"Wx30-5/8"Hx8-11/16"D, STAINLESS STEEL CONTAINER; SURFACE
- 10- EHD TO DELIVER 78-100 CFM AIR AT 250-265 MPH; WHITE CAST ALUMINUM COVER W/ EPOXY PIANT; SURFACED MOUNTED; AND ADA COMPLIANT.





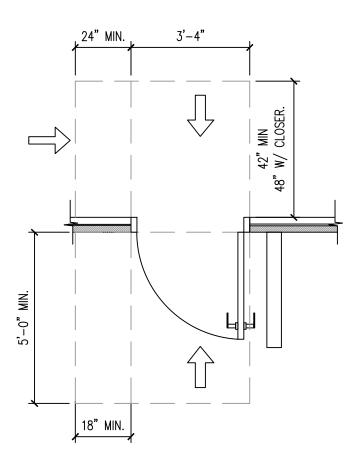
SIDE REACH LIMITS



ACCESSIBLE DOOR NOTES:

- DO NOT PROVIDE DOORS KNOBS FOR ANY DOORS IN PUBLIC FACILITIES

- THE MAXIMUM HEIGHT OF THRESHOLDS AT EXTERIOR AND INTERIOR DOOR SHALL BE 1/2" AND THEY SHALL BE BEVELLED TO ALLOW WHEEL CHAIR ACCESS IT IS PREFERABLE THAT THRESHOLDS BE FLUSH WITH FLOOR SURFACE



DOOR CLEARANCES SCALE: N.T.S.

WALL HATCH LEGEND: (REFER TO SHEET A500 FOR SCHED WALL TYPE DETAILS)

SCHED MTL FRAME WALL

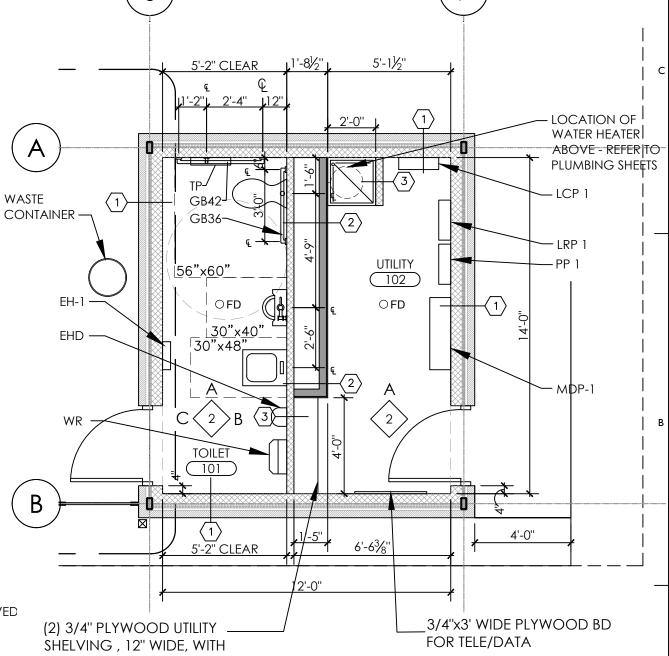
SCHED BRICK

FOUNDATION TO FD.

SCHED CMU

NOTE: SLOPE CONCRETE SLAB AT 1.5% FROM INNER SIDE OF T/O

NOTE: CONTRACTOR TO INSTALL FD WITH AN ADJUSTABLE COLLAR TO SET THE TOP FLUSH WITH THE FINISHED SLAB



TOILET ACCESSORIES KEYED NOTES

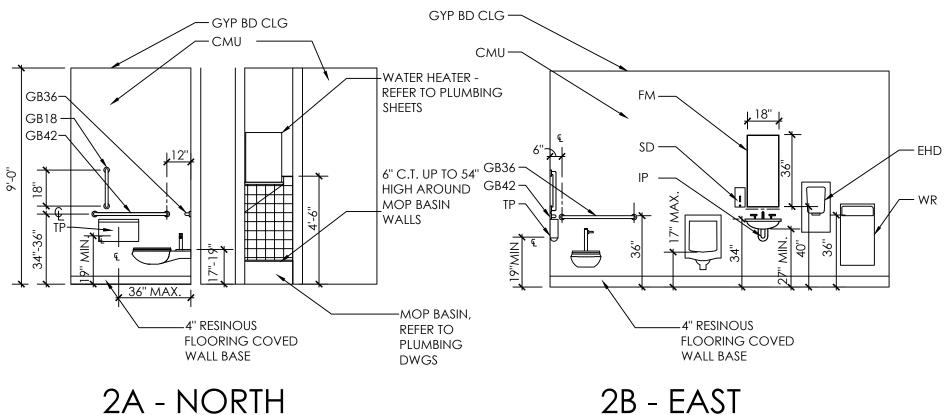
EHD -ELECTRIC HAND DRYER 18"x36" FLAT MIRROR GB18 -18" GRAB BAR

GB24 -24" GRAB BAR GB36 -36" GRAB BAR GB42 -42" GRAB BAR INSULATED PIPING

SD -SOAP DISPENSER

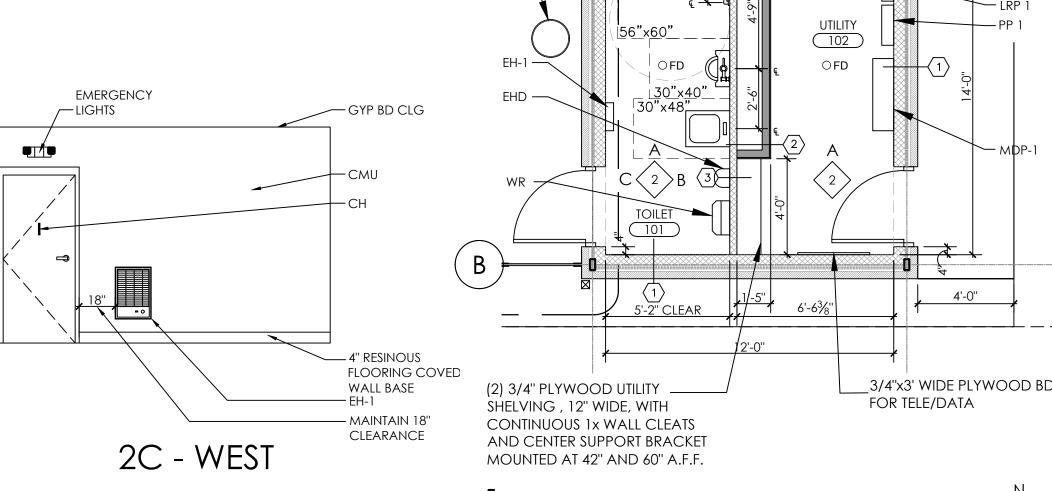
TOILET PAPER DISPENSER WR - WASTE RECEPTACLE

PROVIDE SOLID BLOCKING OR OTHER SUITABLE BACKING AT LOCATIONS INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING: EDGES WHERE FINISH MATERIALS CHANGE, GRAB BARS, TOILET PARTITIONS, DOOR STOPS, SHELF BRACKETS, HANDRAILS AND ALL MOUNTED EQUIPMENT. PROVIDE STEEL BACKING FOR GRAB BARS ATTACHED TO PARTITIONS.



2B - EAST

ENLARGED TOILET AND UTILITY ROOM INTERIOR ELEVATIONS



ENLARGED PLAN SCALE: 1/4" = 1'-0"

Village of Bridgeview 7500 S. Oketo Avenue Bridgeview, IL 60455 Pace Suburban Bus

Arlington Heights, IL 60005

Design Team STUDIO

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Issuance Mark Description FINAL DESIGN 11.27.2017 Project Name TOYOTA PARK

TRANSIT CENTER PHASE II

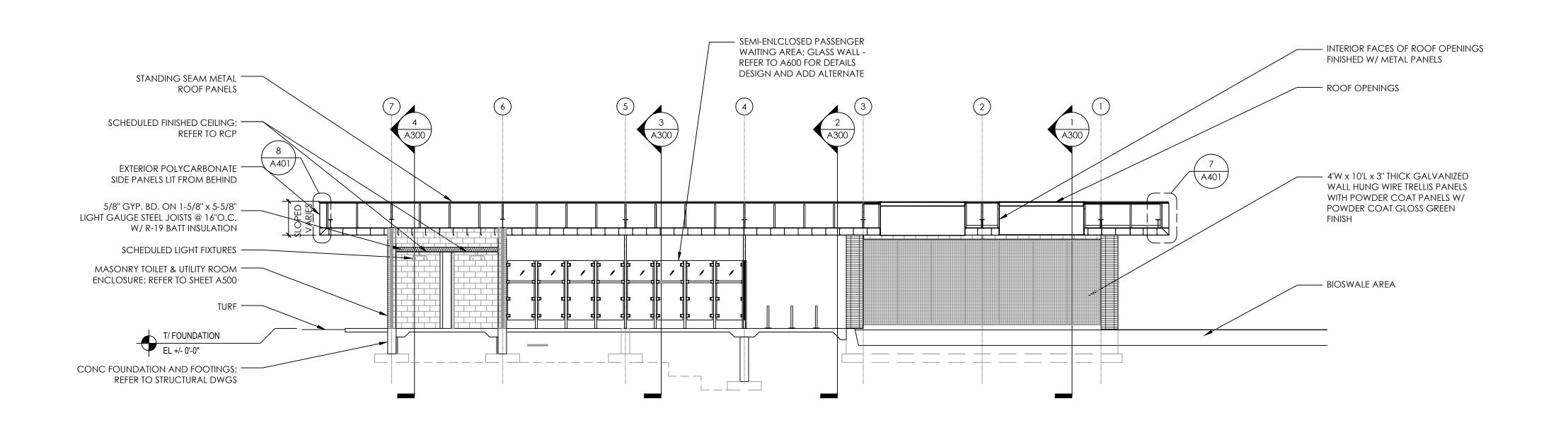
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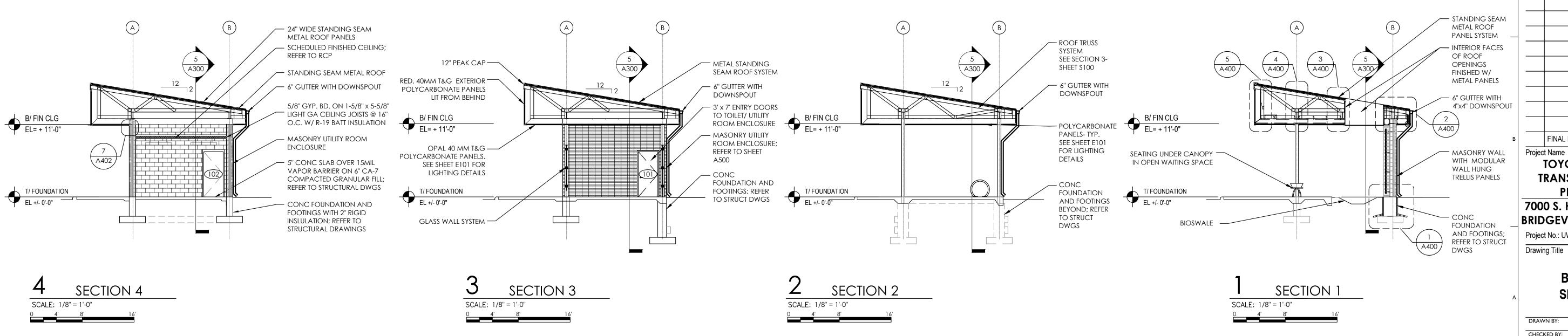
Project No.: UW-P1306 / SA 17-091

Drawing Title ENLARGED ADA **PLAN, INTERIOR ELEVATIONS, AND ADA DIAGRAMS**

CHECKED BY: SCALE: AS NOTED PROJECT#:

A201









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Irban**Works**

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T: (708) 331 6700

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CE Anderson & Associates
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Chicago, IL 60606
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M.E.P Engineer
M.E.P. Infrastructure Solutions, Inc.
440 S. LaSalle st.
Suite 3000B
Chicago, Illinois 60605
T: (312) 279-1185

	Issua	ince	
	Mark	Description	Date
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В		FINAL DESIGN	11.27.2017
	-	t Name TOYOTA PA	\ DV
		RANSIT CEI	
	ı	PHASE I	
	700	0 S. HARLE	

Project No.: UW-P1306 / SA 17-091

BUILDING SECTIONS

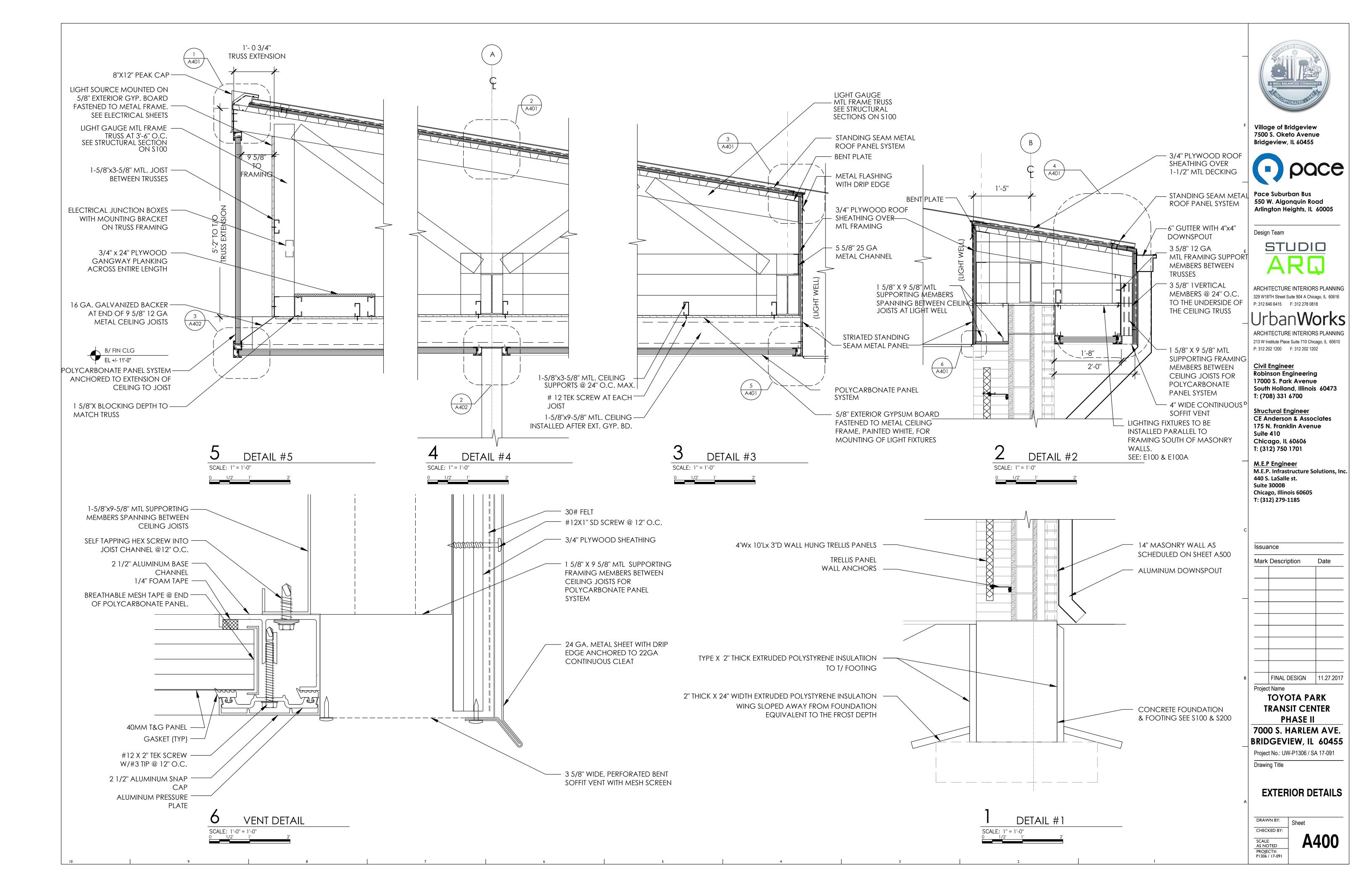
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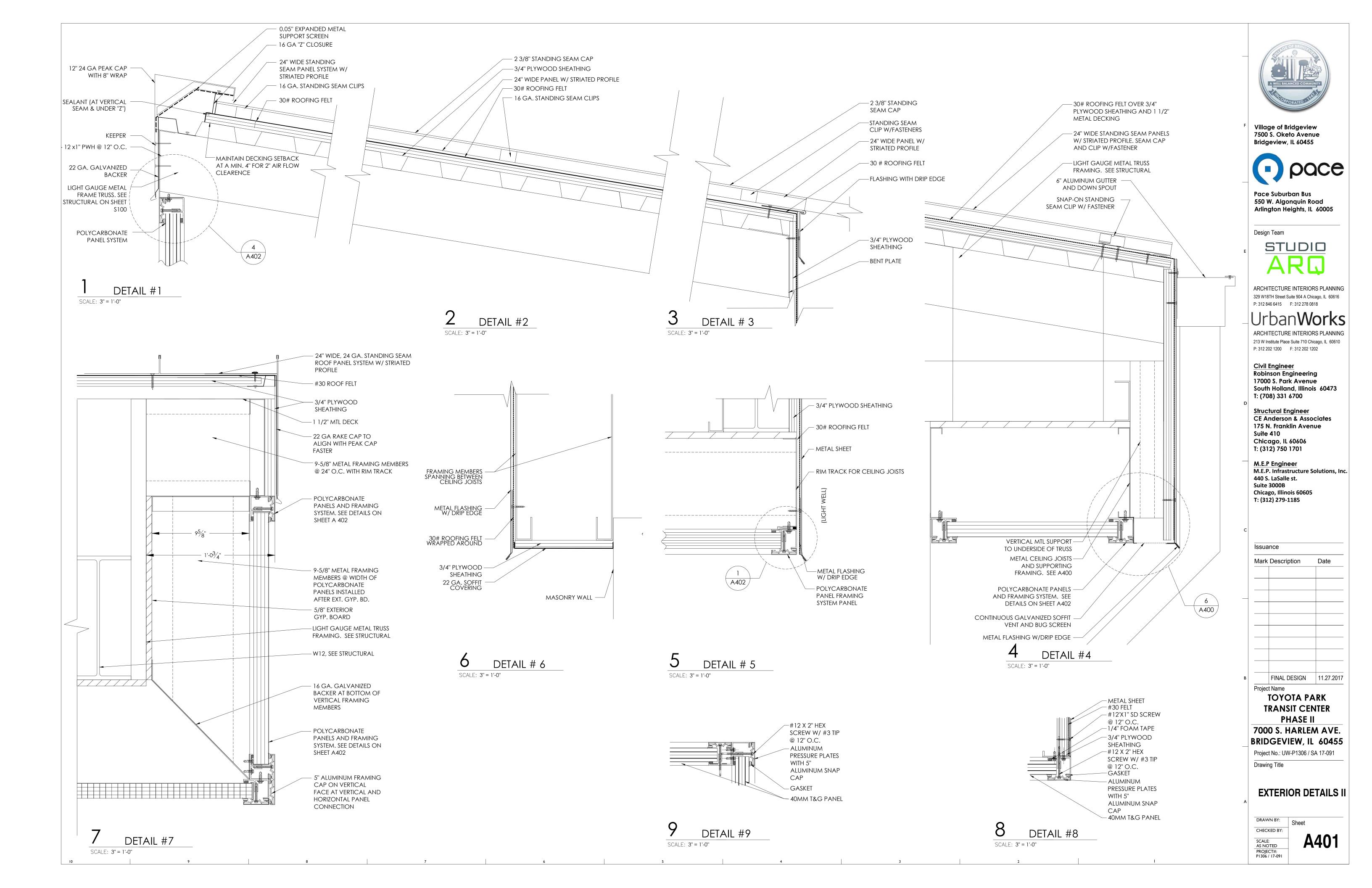
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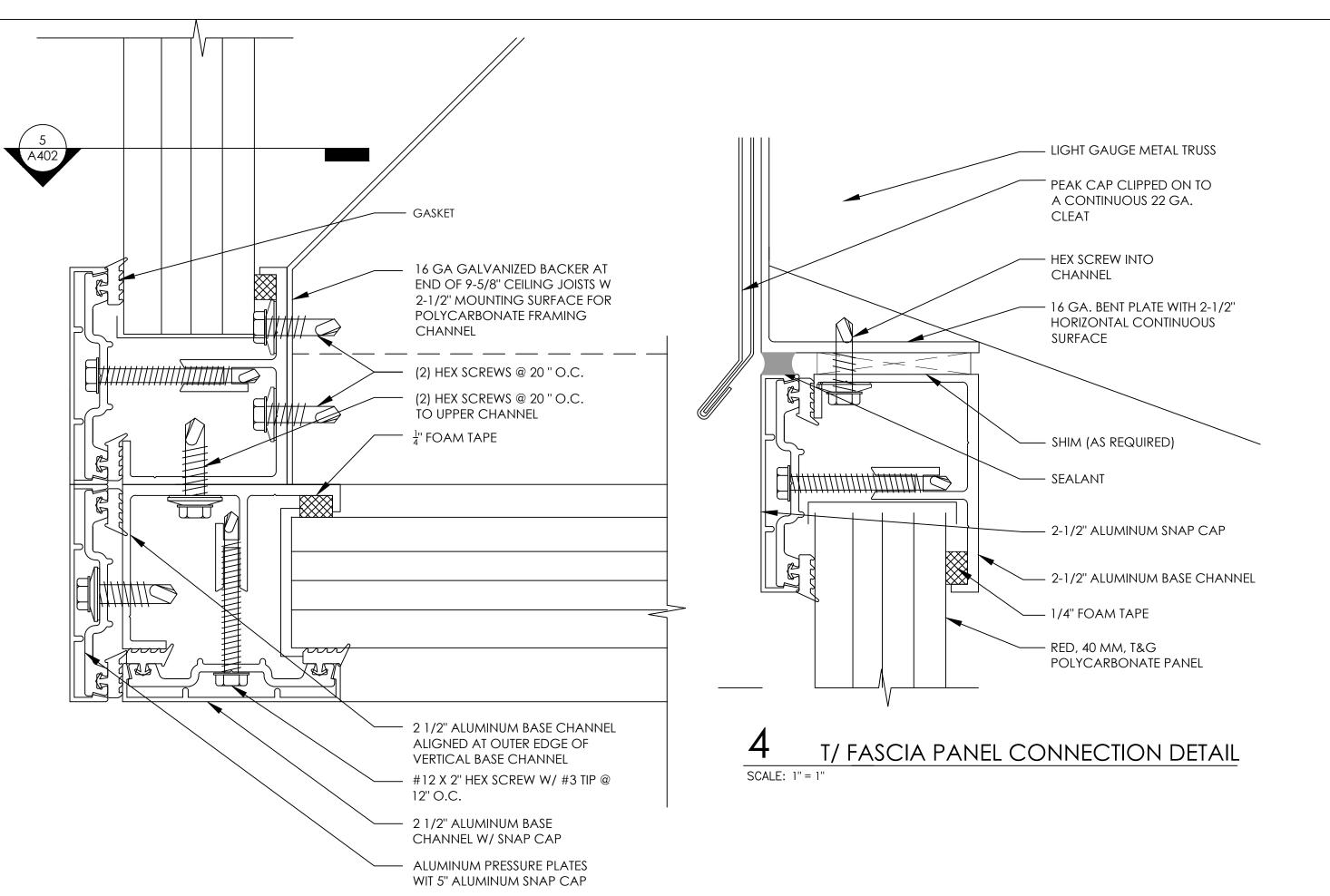
SCALE:
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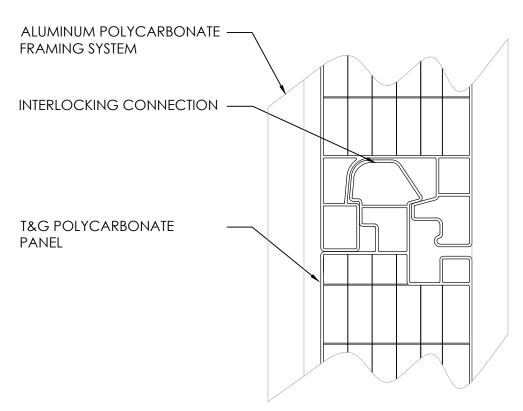
PROJECT#:
P1306 / 17-091

A300

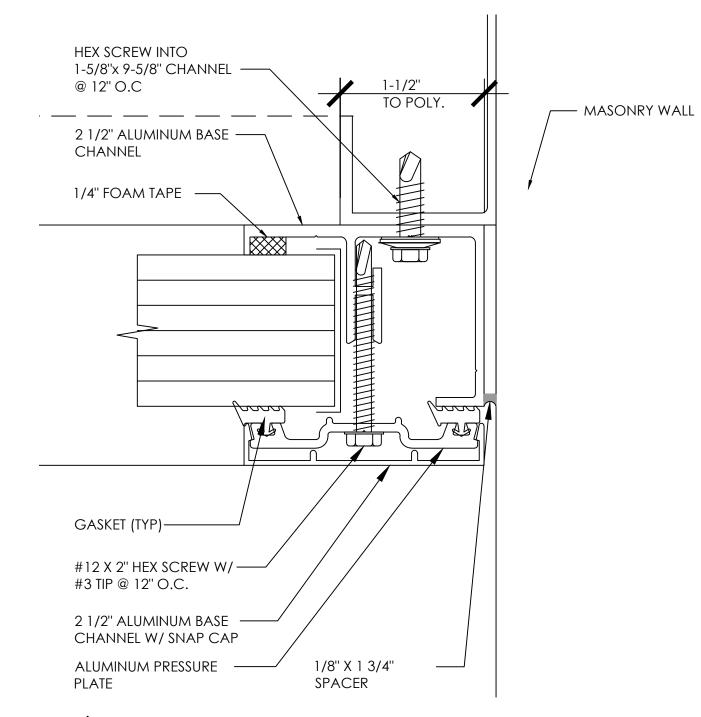








INTERLOCKING CONNECTION DETAIL SCALE: 1" = 1"



PANEL FRAMING CONNECTION AT MASONRY SCALE: 1" = 1"

Village of Bridgeview 7500 S. Oketo Avenue Bridgeview, IL 60455

Pace Suburban Bus 550 W. Algonquin Road Arlington Heights, IL 60005

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Mark Description FINAL DESIGN 11.27.2017 Project Name TOYOTA PARK TRANSIT CENTER

— 1/4" FOAM TAPE - HEX SCREW INTO 2x JOIST Issuance CHANNEL @ 12" O.C — 30# FELT - BREATHABLE MESH TAPE @ END OF 40MM T&G POLYCARBONATE PANEL. . Gasket (typ) ALUMINUM PRESSURE PLATE W/ #12 X 2" TEK SCREW W/ #3 TIP @ 12" O.C. - 1/8" BACKER ROD AND SEALANT — 2 1/2" ALUMINUM SNAP CAP 24 GA. METAL SHEET WITH DRIP EDGE ANCHORED TO 22 GA. CONTINUOUS PHASE II 7000 S. HARLEM AVE. BRIDGEVIEW, IL 60455

- #12X1 SD SCREW @12"

EXTERIOR DETAILS III

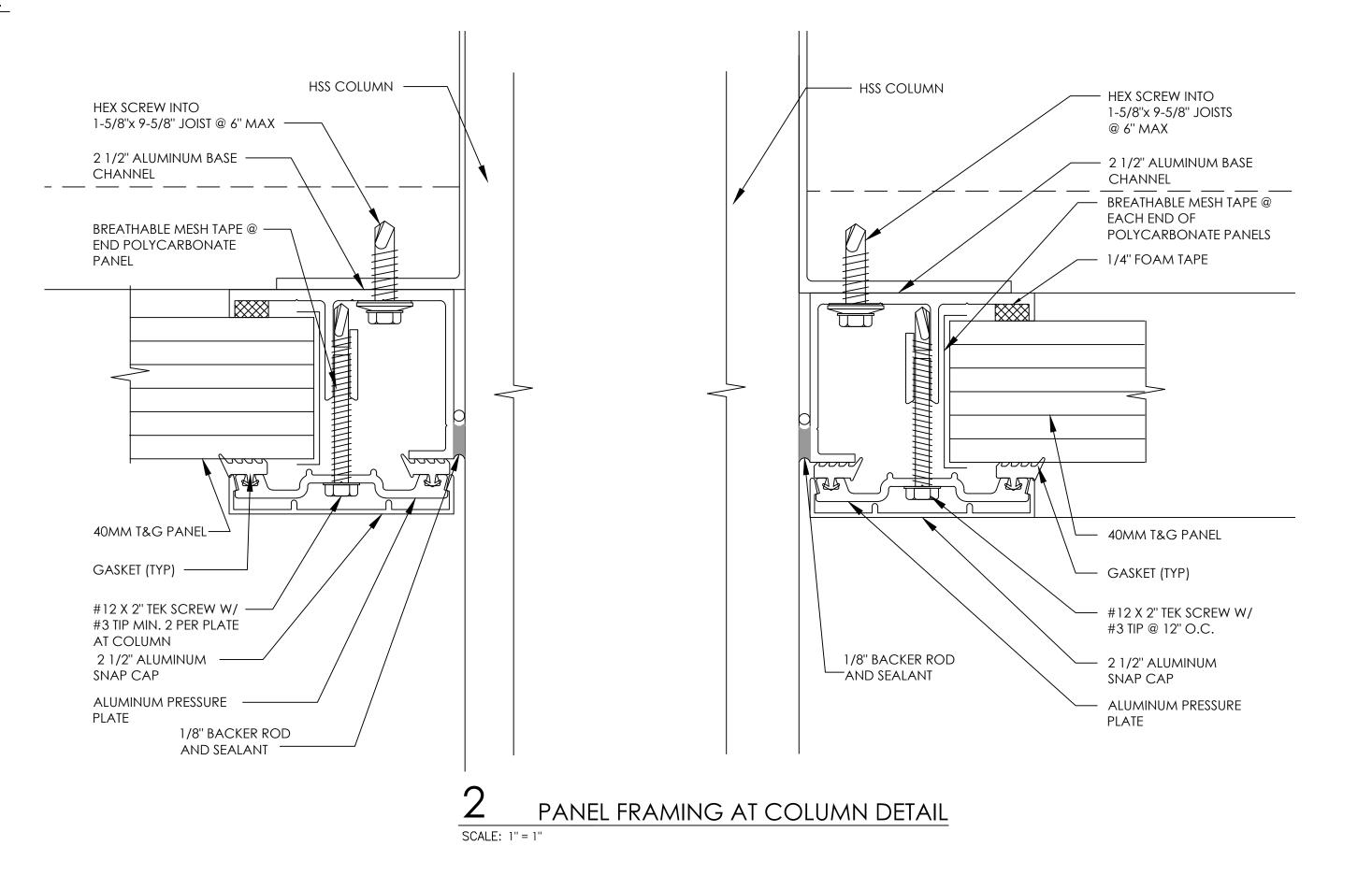
Project No.: UW-P1306 / SA 17-091

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Drawing Title

A402

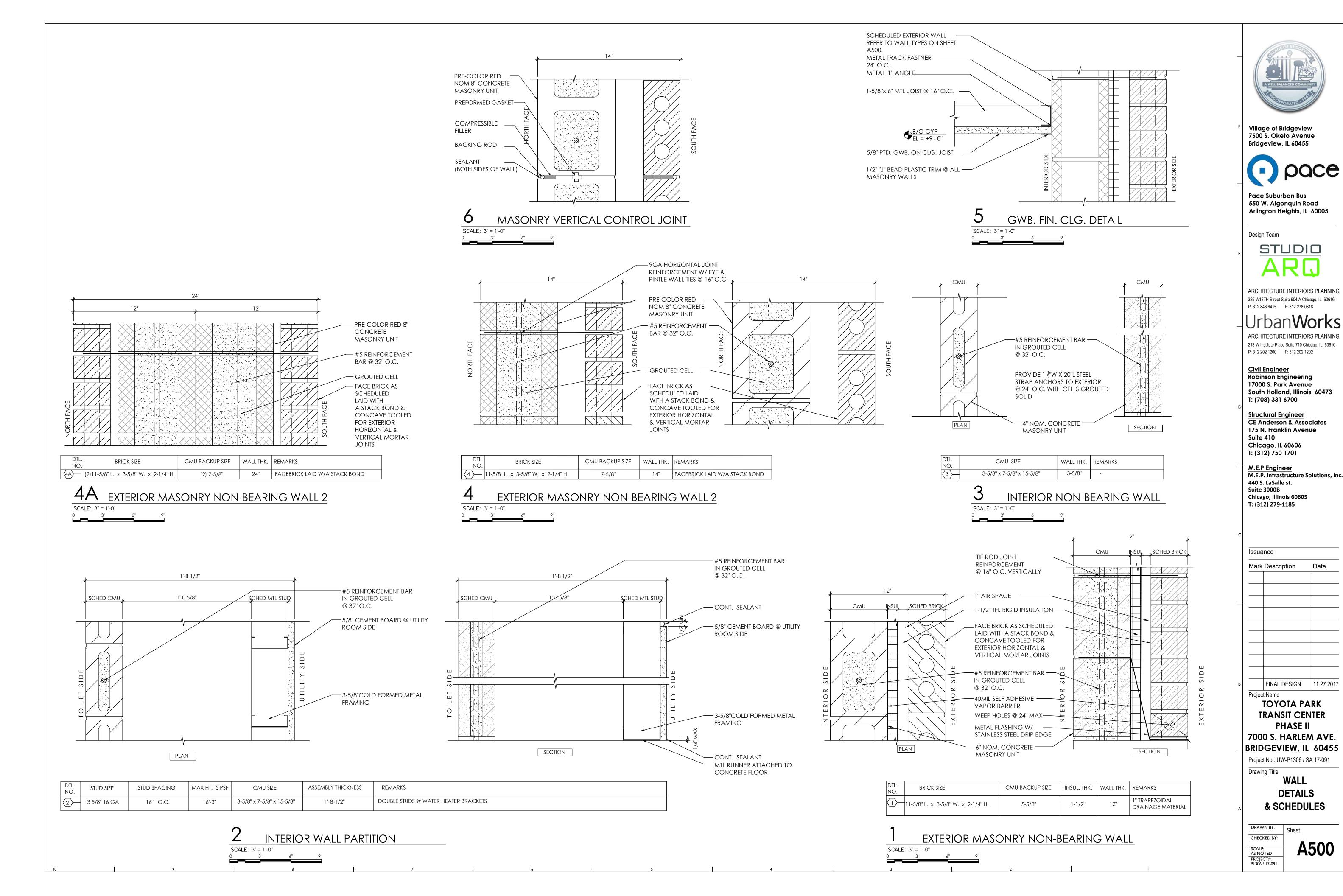
CORNER FRAMING DETAIL SCALE: 1" = 1"



FRAMING AT LIGHT WELL DETAIL SCALE: 1" = 1"

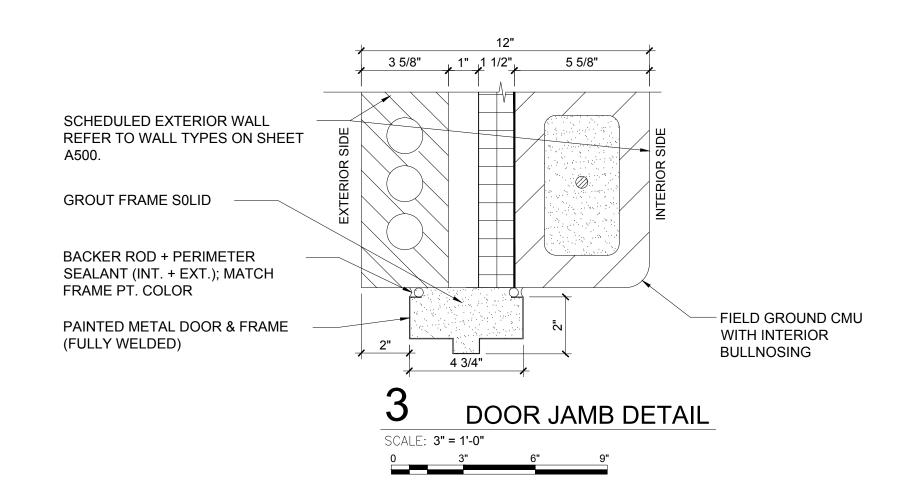
2-1/2"

1-1/2"



	DOOR HARDW	ARE SCHEDULE								
SET.#	DESCRIPTION	MFR./ CAT. #/ FINISH								
NO.1	1 EA CONT. HINGE	IVE / 224HD / 628								
101	1 EA FAC RESTRM W/IND	SCH / LV9486 OCCUPIED								
	1 EA MORTISE CYLINDER	BES / 1E74 / 626								
	1 EA SURFACE CLOSER	LCN / 4010 / 689								
	1 EA FLOOR STOP	IVE / FS439 / US26D								
	1 SET SEALS	NGP / 135NA / CL								
	1 EA DOOR SWEEP	NGP / 200NA / CL								
	1 EA THRESHOLD	NGP / 896S / AL								
NO.2	1 EA CONT. HINGE	IVE / 224HD / 628								
102	1 EA STOREROOM LOCK	SCH / LV9080L 06A / 626								
	1 EA MORTISE CYLINDER	BES / 1E74 / 626								
	1 EA SURFACE CLOSER	LCN / 4010 / 689								
	1 EA FLOOR STOP	IVE / FS439 / US26D								
	1 SET SEALS	NGP / 135NA / CL								
	1 EA DOOR SWEEP	NGP / 200NA / CL								
	1 EA THRESHOLD	NGP / 896S / AL								

DOOR HAF MANUFAC	
ITEM	MFR
CONTINUOUS HINGES	IVES (IVE)
LOCKSETS	SCHLAGE (SCH)
CYLINDERS & KEYING	BEST (BEST)
DOOR CLOSERS	LCN / ALLEGION (LCN)
STOPS	IVES (IVE)
THRESHOLDS & WEATHERSTRIP	NATIONAL GUARD (NGP)



DOOR SCHEDULE

	ROOM NAME			DC	OR			AME				REMARKS		
DOOR#		MATERIAL	TYPE	FINISH	SIZE	THK.	MATERIAL	EINIICH	DETAILS		LABEL			HDWR
		WATERIAL TT	IIFE	FINISH	JII SIZL	IIIIX.	IVIATERIAL	1 1141011	JAMB	HEAD				
101	TOILET	НМ	A	FPTD	3'-0" X 7'-0"	1 3/4"	GFM	FPTD	3/A501	2/A501	-	1	CLOSER, SWEEPS & SEALS, EXTERIOR DOOR	
(102)	UTILITY ROOM	НМ	А	FPTD	3'-0" X 7'-0"	1 ³ ⁄ ₄ "	GFM	FPTD	3/A501	2/A501	-	2	CLOSER, SWEEPS & SEALS, EXTERIOR	

1. ALL DOORS USED IN CONNECTION WITH EXITS SHALL BE READILY OPENED WITHOUT THE USE OF A KEY FROM THE SIDE ON WHICH EGRESS IS MADE.

BASE

2. ALL DOORS LEADING INTO HAZARDOUS ROOMS OR SPACES TO RECEIVE KNURLED HARDWARE.

3. PROVIDE SAFETY GLAZING IF GLAZED PANEL IS BELOW 24" IN HEIGHT AND MORE THAN 18" WIDE.

FINISH

4. SEE FLOOR PLANS ON SHEETS A101 FOR LOCATIONS AND QUANTITIES OF DOORS.

5. ALL DOORS TO BE GALVANIZED, INSULATED HM W/ GALVANIZED FRAME.

FLOOR

MAT'L

ABBREVIATIONS: ALUMINUM GL **GLASS** GFM **GROUT FILLED METAL** НМ **HOLLOW METAL** INS. MTL INSULATED METAL

FPTD FIELD PAINTED 1/2" UNDERCUT WD SOLID CORE WOOD

ROOM FINISH SCHEDULE WALLS CEILING REMARKS MAT'L FINISH MAT'L **FINISH** MAT'L FINISH

100	SEMI-ENCLOSED PASSENGER WAITING AREA	CONC.	BROOM FINISH	N/A	N/A	GLAZING	N/A	POLYCAR BONATE	PANELS	
101	TOILET	CONC.	SIKAFLOOR QUARTZITE BROADCAST SYSTEM	N/A	4" COVED EPOXY/ RESINUOUS	CMU	PAINTED	GYP. BD	PAINT	
102	UTILITY ROOM	CONC.	SEALED	N/A	N/A	CMU (NORTH, EAST, SOUTH WALLS) CEMENT BOARD (WEST WALL)	PAINTED	GYP. BD.	PAINT	WEST WALL (FULL HEIGHT) CEMENT BD. PAINTED. PUT CERAMIC TILE ON ALL THREE SIDE OF MOP BASIN.

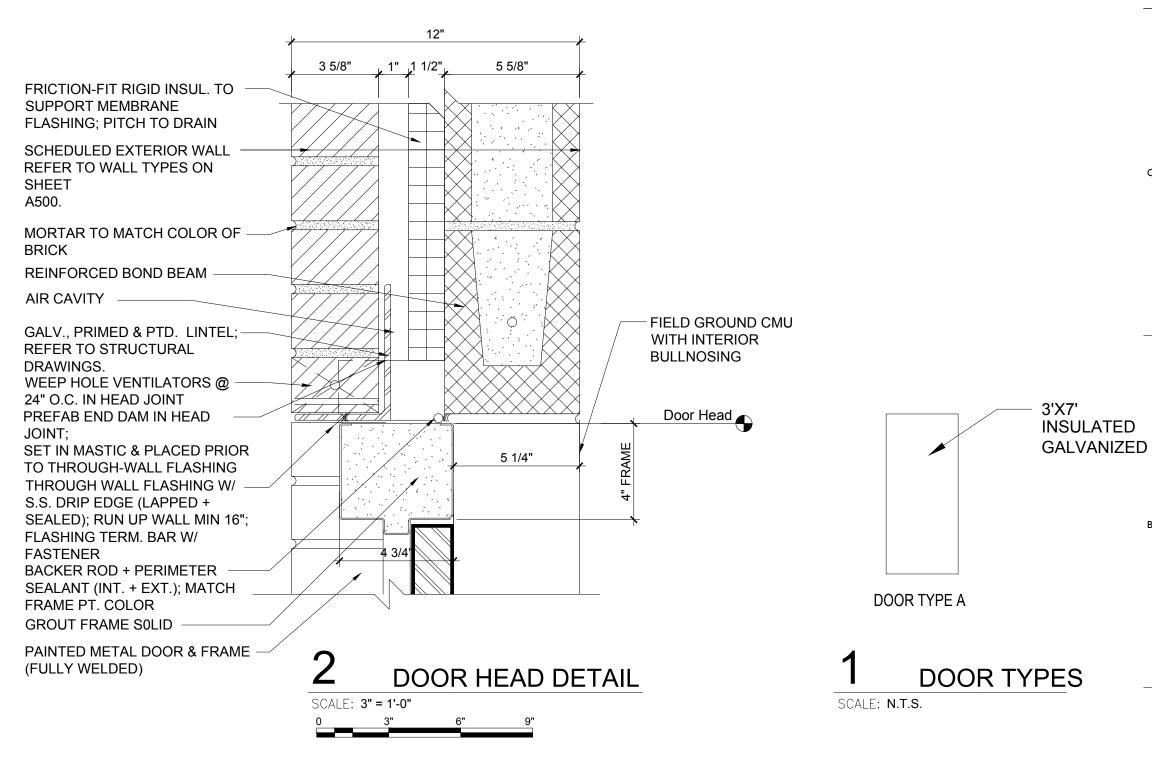
NOTES:

ROOM

NO.

ROOM NAME

PAINT THE SUB-CEILING GYPSUM BOARD AND THE SUB-FASCIA GYPSUM BOARD





Village of Bridgeview 7500 S. Oketo Avenue Bridgeview, IL 60455



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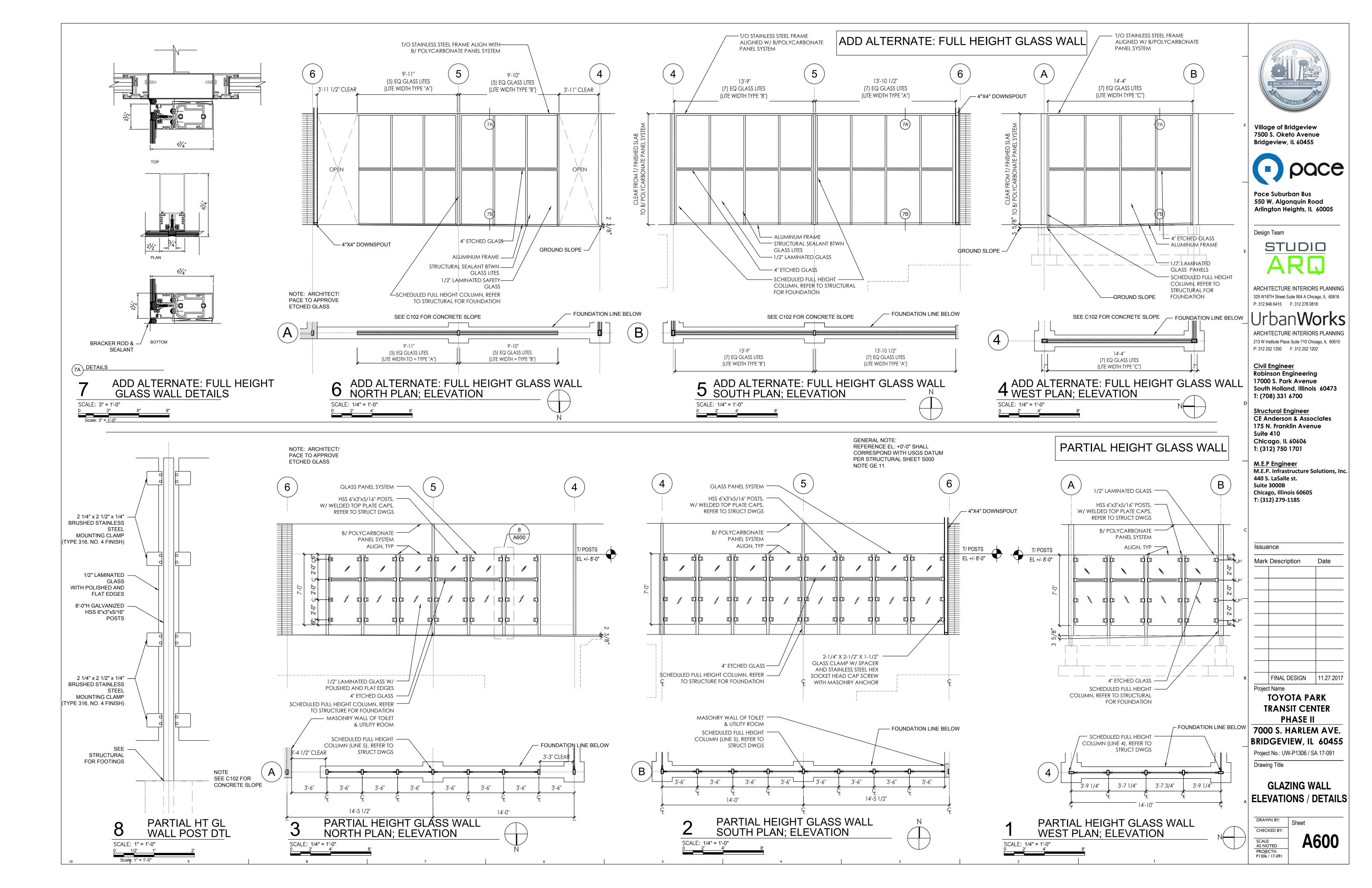
Issuance Mark Description FINAL DESIGN 11.27.2017 Project Name TOYOTA PARK TRANSIT CENTER PHASE II 7000 S. HARLEM AVE.

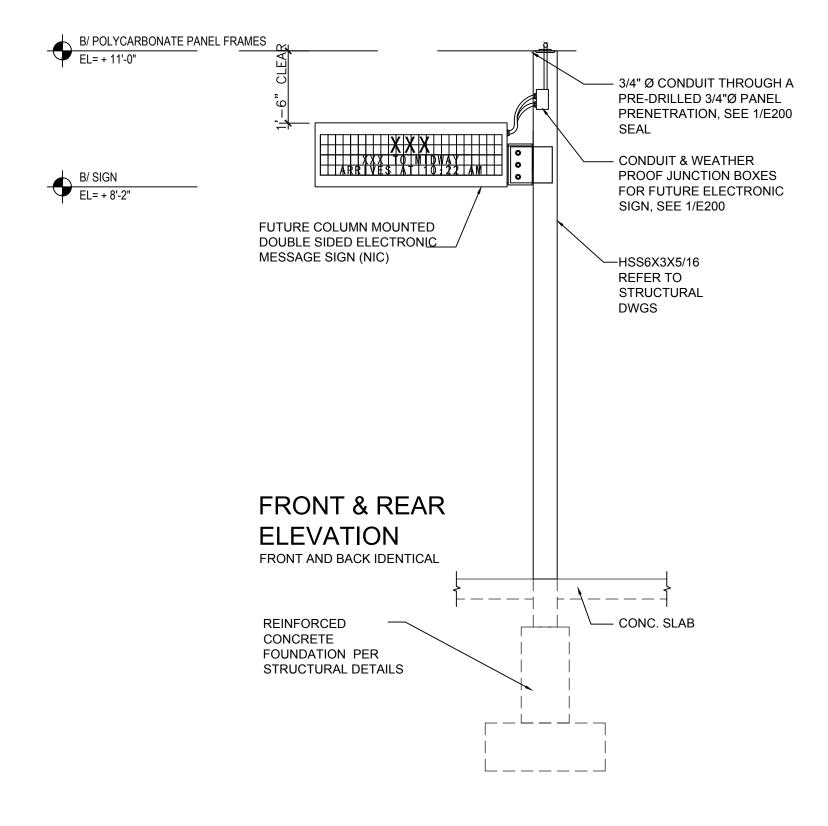
BRIDGEVIEW, IL 60455 Project No.: UW-P1306 / SA 17-091 Drawing Title

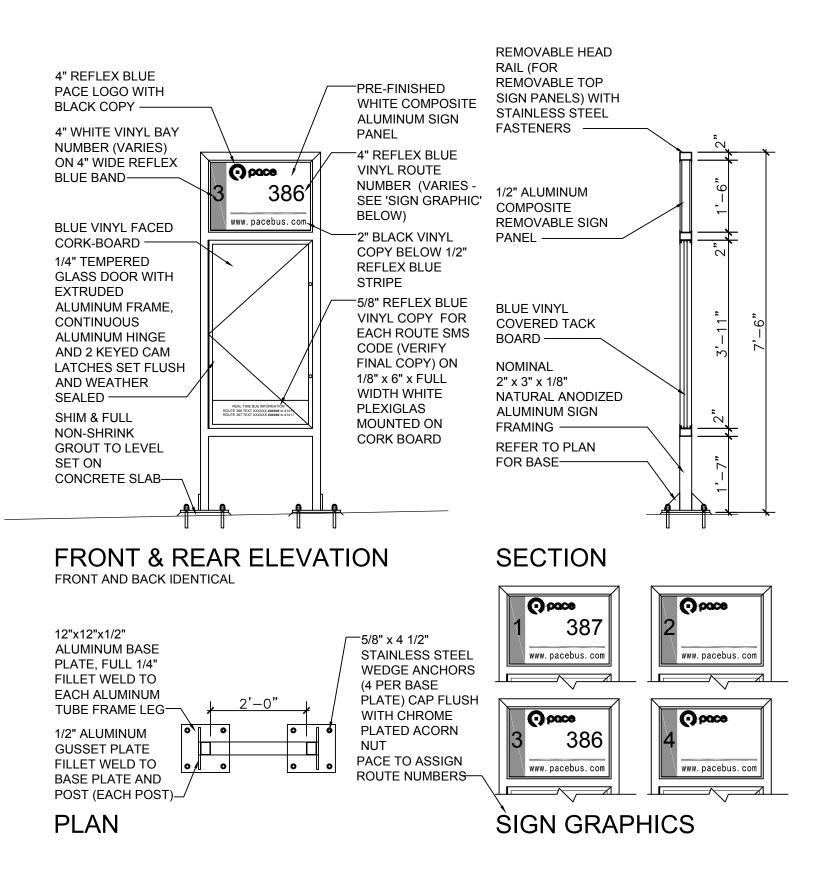
DOOR/ROOM FINISH **SCHEDULES & DETAILS**

DRAWN BY: CHECKED BY: SCALE: AS NOTED PROJECT#: P1306 / 17-091

A501







BAY 2 'NEXT-BUS' SIGN

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

BUS ROUTE INFORMATION SIGNS

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

CONCRETE BUS BAY (TYP),
SEE CIVIL DWGS

CURB & GUTTER, SEE CIVIL
DWGS

EXISTING
STEEL BOLLARD,
SEE CIVIL DWGS

CONCRETE SIDEWALK, SEE
CIVIL DWGS

BUS ROUTE INFORMATION SIGN.
ALIGN PERPENDICULAR TO PACE
DRIVE, SOUTH OF EAST BAY
BOLLARD WITH SOUTH END OF
BUS SIGN IN LINE WITH WEST
BOLLARD OF BAY.

BUS BAY #1, #2, #3, AND #4 SIGN LOCATION PLAN DETAIL

SCALE: 1/8" = 1'-0" 0 4' 8' 16'

REFER TO DETAIL 2 FOR ADDITIONAL DETAILS

A WELL PALANCID COMMUNITY

Village of Bridgeview 7500 S. Oketo Avenue Bridgeview, IL 60455



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В		FINAL DESIGN	11.27.201
	Project	Name	
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TOYOTA PARK
TRANSIT CENTER
PHASE II

7000 S. HARLEM AVE. BRIDGEVIEW, IL 60455

Project No.: UW-P1306 / SA 17-091

Drawing Title

SIGNAGE

DRAWN BY:

CHECKED BY:

SCALE:
AS NOTED

PROJECT#:
P1306 / 17-091

A700

GENERAL NOTES

- GE.01 Before submitting a proposal for this work, the Contractor shall visit the premises and acquaint himself fully with the existing conditions, temporary construction required, quantities and types of equipment required, etc. His bid shall include all sums required to do the work within the existing conditions. Disruption of normal activities in the work area must be kept to a minimum.
- GE.02 The Contractor shall field verify all existing construction, dimensions, member sizes, and elevations for conformance with the drawings. All discrepancies shall be immediately brought to the attention of the PACE Representative.
- GE.03 Coordinate with the Architectural drawings for lintels, metal wall framing, shelf angles, size and location of slopes, depressed areas, finish fills, chamfers, grooves, sleeves, inserts, etc.
- GE.04 Coordinate with Mechanical/Electrical drawings for pipe sleeves, floor drains, inserts, hangers, trenches, pits, wall and slab openings, conduit runs in walls and slabs, size and location of machine or equipment supports, bases, anchor bolts, etc.
- GE.05 Shop drawings prepared by the contractor and/or his suppliers shall be reviewed by the Architect only for conformance with the design concept. No work shall be started without such review.
- GE.06 Shop drawings prepared by suppliers and subcontractors shall be reviewed by the General Contractor prior to submission to the Architect.
- GE.07 Design loads, allowable stresses and structural capacities are based on the 2015 International Building Code.
- GE.08 The structure has been designed for the following live loads:

Snow = 30 psf + drift

GE.09 The structure has been designed for wind loads per the following criteria:

GE.10 The structure has been designed for seismic loads per the following criteria from ASCE7-05:

Is, Seismic Importance Factor.... ...1.00 per Table 11.5-1 ...III per Table 1-1 Occupancy Category... S_a and S₁, Mapped Spectral Response Coefficients....0.20 and 0.0620.213 and 0.099 respectively per Section 11.4-4 Sos and Son, Spectral Response Coefficients...... Site Class. ..B per Section 11.6.1.1 Seismic Design Category... Basic Seismic Force Resisting System.. ...Ordinary Steel Moment Frames R. Response Modification Factor.. ..3.5 per Table 12.2-1 Cs, Seismic Response Coefficient... ...0.076 per Section 12.8.1.1 Analysis Procedure... ...Equivalent Lateral Force Procedure .. 0.076W per Chapter 12.8, Equation 12.8-1 V, Design Base Shear..

GE.11 For reference, elevation +0'-0" = U.S.G.S datum +613.70'.

EXCAVATION AND BACKFILL NOTES

- EB.01 Remove all bituminous pavement, loose gravel, foundations, black loam and fill encountered within the area to be occupied by new construction before any other building operations are started. None of this material or other excavated on—site soils, which are found to be unsuitable, shall be used for fill within or adjacent to the building.
- EB.02 General machine excavation for footings shall stop not less than one—half the thickness of the footing above scheduled elevations of bottoms of footings. Final 6" excavation to undisturbed soil at required footing elevation shall be done by hand not more than 48 hours before the footing is poured.
- EB.03 All necessary changes in elevation of wall footings shall be made in steps of not more than 2'-0" high and a minimum of 4'-0" apart, except as otherwise detailed.
- EB.04 After excavating for all earth—supported floor and stair slabs, the exposed natural soil shall be thoroughly compacted prior to placing fill.
- EB.05 All foundation backfill and fill required to establish final subgrades shall consist of clean granular material thoroughly compacted in layers of 6" to 8" thick. All earth—supported slabs shall have at least 6" of thoroughly compacted crushed stone or washed gravel directly below the slab.
- EB.06 Interior slab—on—grade thickness and reinforcing shall be as noted on the plans, thickened as required per the standard details. See Note RS.05 for the placement of welded wire fabric. A vapor barrier shall be provided under all interior slabs—on—grade per the Specifications.
- EB.07 Backfill placed directly adjacent to retaining walls shall be compacted clean granular material as per the Specifications. Provide 1'-6" of compacted approved impervious clayey (CL) material at top of granular backfill.
- EB.08 Foundations have been designed for an allowable bearing capacity of 4,000 psf to be verified by the geotechnical engineer, and to be founded on stiff to very stiff natural clay or properly compacted engineered fill. All foundation excavations shall be inspected by a soils testing laboratory prior to placement of concrete. The contractor shall notify the Architect and PACE immediately in the event that the soils conditions encountered vary from those used for design.
- EB.09 Refer to and follow the recommendations of the Geotechnical Engineering Report dated January 17, 2011, by:

 Geocon Professional Services
 9370 W. Laraway Rd, Suite D
 Frankfort, IL 60423
 Phone (815) 806-9986
 Fax (815) 464-8691
 Project No. 11-G660
- EB.10 All unsuitable soil shall be excavated and removed to a min. of 2'-0" below slab elevation.

CONCRETE AND FORMWORK NOTES

All concrete work shall conforms to the latest edition of the following American Concrete Institute publications:

ACI 301

ACI 304

ACI 304 ACI 311

CO.02 Concrete shall be as follows:

Foundations and footings
Slabs on grade

CO.02 Concrete shall be as follows:

normal weight (145 pcf) f'c =3000 psi
normal weight (145 pcf) f'c =4000 psi

- CO.03 All concrete exposed to the exterior shall be air— entrained. Water reducing plasticizing admixtures may be used, pending approval of the Architect and PACE.
- CO.04 No calcium chloride or chloride ion producing add mixture shall be used in any concrete.
- CO.05 Formwork for all concrete which will be exposed in the completed building shall be constructed from a suitable plastic surfaced plywood which will produce an acceptably smooth surface. Also see the Specifications.
- CO.06 The Contractor shall submit detailed drawings showing the locations of all construction joints, curbs and slab depressions, if any, and describe the concrete placement sequencing. All curbs shall be reinforced with at least 1—#4 continuous and #3 at 16" c/c dowels to the structure below, unless shown otherwise.
- CO.07 All construction joints shall be wire brushed and cleaned immediately prior to placing new concrete. Allow 24 hours minimum to elapse between pours.
- CO.08 See Architectural drawings for type and location of all floor finishes, floor depressions, curbs and for all waterproofing/dampproofing details. See Mechanical, Electrical and Plumbing drawings for additional wall and/or slab openings, and equipment pads not shown on the Structural drawings.
- CO.09 Slope concrete slabs, where required, to floor drains shown on the Architectural and Plumbing drawings.

CO.10 Concrete protection for reinforcing bars shall be as follows:

Footings 3" clear, sides and bottom

2" clear, outside face 1 1/2" clear, inside face

Slabs 1" clear
Piers 2" clear to ties

O.11 Owner will engage an independent testing and inspecting agency to perform field inspections and tests to meet IBC 2015 req. per table 1705.3.

REINFORCING STEEL NOTES

Walls

- RS.01 All reinforcing steel shall be high strength new billet steel conforming to the latest edition of ASTM A 615, Grade 60.
- RS.02 All welded wire fabric shall conform to the standards of ASTM A 186.
- RS.03 All concrete reinforcement shall be detailed, fabricated, labeled, supported and spaced in forms and secured in place in accordance with the procedures and requirements outlined in the latest editions of the "Building Code Requirements for Reinforced Concrete", ACI 318, and the "Manual of Standard Practice for Detailing Concrete Structures", ACI 315. Use dielectric material for bar supports and nylon coated tie wire at epoxy coated bars.
- RS.04 All reinforcing splices shall be lap spliced where necessary or desirable by wiring together in contact. Splice lengths shall conform to latest ACl and CRSI criteria for size and type of reinforcing steel and concrete compressive strengths specified.
- RS.05 All welded wire fabric shall be lapped two (2) full mesh panels and tied securely. Provide additional reinforcing where shown on the drawings. Place mesh 2" from the top of the slab. No electrical conduit shall be placed above the welded wire fabric in slabs—on—grade.
- RS.06 No reinforcing steel shall be welded in any way unless prior written approval is given by the Architect.
- RS.07 Provide adequate bolsters, high chairs, support bars, etc. to maintain specified clearances for the entire length of all reinforcing bars. Provide continuous #4 spacer bars in walls and slabs to support dowels, as required.
- RS.08 Checked shop drawings showing reinforcement details, including steel sizes, spacing and placement shall be submitted to the Architect and PACE for review prior to fabrication.

SHORING AND BRACING NOTES

- SB.01 Individual structural components are designed to support loads in their finally erected position as part of the total completed structure. Provide temporary shoring, guying and bracing as required until all construction affecting load carrying members and lateral stability is completed.
- SB.02 Contractor shall be solely responsible for stability of structure, its parts and job site safety by use of guying, bracing, shoring, barricades, safety railings and devices during the entire period of construction.
- SB.03 Contractor is fully responsible for providing all temporary shoring and bracing of existing structural elements during construction. All shoring shall be adequate to support all structural loadings during modification of the existing building and erection of the new structural support system. Temporary shoring must remain in place until all new structural members supporting shored elements are in place and all new connections completed.

STRUCTURAL STEEL NOTES

- SS.01 All detailing, fabrication and erection of structural steel shall conform to the latest editions of all AISC and AWS Specifications and Codes.
- SS.02 All structural steel wide flange shapes shall meet the requirements of ASTM A992, Fy = 50 ksi, unless noted otherwise. All structural steel pipes and tubes shall meet the requirements of ASTM A500, Grade B. All other structural steel shapes shall meet the requirements of
- SS.03 All bolts, nuts and washers shall conform to the requirements of ASTM A325.
- SS.04 All welding electrodes shall be E70XX, unless noted otherwise. All welding shall be done by qualified welders and shall conform to AWS "Code for Arc and Gas Welding in Building Construction", latest edition.
- SS.05 Shop connections may be welded unless otherwise indicated. Minimum welds not shown on the drawings shall be 1/4" fillet welds all around.
- SS.06 Unless noted otherwise on the drawings, all connections shall be standard double angle shear connections. All bolts shall be 3/4" diameter, ASTM A325. The minimum number of vertical rows of bolts shall be as below, unless noted otherwise on the drawings. In cases where reactions are not indicated, provide at least 75% of the uniform load carrying capacity of the beam as determined in the tables for "uniform load constants for beams" in the aisc manual of steel construction, 8th edition, or the reaction force when indicated.

W6, W8, W10: 2 Rows W12 & W14: 3 Rows W16 & W18: 4 Rows

See specifications for connection design responsibilities.

- SS.07 The Contractor shall be responsible for the control of all erection procedures and sequences with relation to temperature differential and temporary structural stability.
- SS.08 Steel shall be cleaned of rust, loose mill scale and other foreign materials where required for proper fabrication, fitting up or welding.
- SS.09 There shall be no field cutting of structural steel members for the work of other trades without the prior written approval of the Architect and PACE.
- SS.10 Prime paint all structural steel shapes. See plan and SS.11 for galvanizing requirements.
- SS.11 Refer to the Architectural and/or Mechanical/Electrical drawings for additional structural and miscellaneous steel requirements. All exterior edge angles, lintels and shelf angles shall be stainless steel or galvanized after fabrication. See specification for requirements.
- SS.12 Owner will engage an independent testing and inspecting agency to perform field inspections and tests to meet IBC 2015 reg. per 1705.2

METAL DECK NOTES

- MD.01 All design, detailing, fabrication and erection of deck units shall conform to the requirements of the latest edition of the AISI "Specifications for the Design of Cold Formed Steel Structural Members".
- MD.02 All metal decking shall be fabricated from steel conforming to ASTM A446, Grade A or equivalent, having a minimum yield strength of 33,000 psi.
- ND.03 Roof deck shall be galvanized, and of depth, gage and profile as noted on drawings.
- MD.04 Provide continuous sheet metal closures at all slab openings and slab edges and continuous deck closures at all deck ends. Provide steel angle or bent plate closures as shown on the drawings.
- MD.05 A welding procedure shall be established for the plug welding of the steel decking to the structural steel for the particular gage of deck used prior to the start of erection of the steel deck. Each welder shall be qualified using this procedure.
- MD.06 All roof deck shall be formed with telescoped ends to lap ends of sheets a minimum of 2".
- MD.07 Provide continuous ridge and valley plates, column closures, cant strips, sump plates at piping penetrations and recessed sump pans at all roof drains and roof vents, as required. Provide supplemental framing at openings as shown for the support of the metal deck. All openings shall be coordinated with the Architectural and/or the Mechanical/Electrical drawings.
- MD.08 The Contractor shall provide engineered and checked shop drawings indicating location, gage and size of each piece of decking. The drawings shall clearly show welding details to the structural framing and side lap connection details.
- MD.09 All deck shall be designed for a suitable construction live load taking into consideration the particular method of concrete placement to be used on this project and all requirements for temporary deck loading per the governing Building Code and any local or national laws and regulations. The assumed construction live load shall be not less than 20 psf. The Contractor shall not exceed the assumed construction design load without first taking proper safety precautions such as shoring, bracing, etc.

<u>LIGHT GAUGE METAL TRUSS NOTES</u>

- LG.01 All members shall be designed in accordance with the American Iron Steel Institute (AISI) "Specifications for the Design of Cold—Formed Steel Structural Members", latest edition.
- LG.02 All members shall be 16 ga. min., uno, formed from corrosion resistant steel corresponding to the requirements of ASTM A 446 Grade A with a minimum yield strength of 50 ksi.
- LG.03 All members shall be zinc coated meeting ASTM A 525.
- LG.04 Fastening of components shall be with self—drilling screws or welding of sufficient size to ensure the strength of the connection.
- LG.05 End blocking shall be provided where truss ends are not otherwise restrained from rotation.
- LG.06 Temporary bracing, where required, shall be provided until erection is complete.
- LG.07 Installation of light gauge metal trusses shall follow manufacturer's procedures and recommendations.
- LG.08 Engineering responsibility: engage a qualified professional engineer who is legally qualified to practice in jurisdiction where project is located and who is experienced in providing engineering services of the kind indicated to prepare the following:

A) stamped design calculations for the following:

Light gauge steel trusses for gravity and lateral loads $\,$ including gauges & connections at truss joints.

Truss to truss connections & truss to bearing connections for gravity, lateral and uplift loads.

The top & bottom chord and permanent bracing locations

Roof deck structural suport at eave edge, valley, hip and ridge transition planes to support metal or plywood decking.

Roof deck shear transfer framing required to transfer the roof deck shear to the building structure for the loads indicated.

B) Shop drawings and other structural data.



Village of Bridgeview 7500 S. Oketo Avenue Bridgeview, IL 60455



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Issuance

	Mark	Description	Date
В		FINAL DESIGN	11.27.2017
	Projec	ct Name	
		TOYOTA P.	ARK

7000 S. HARLEM AVE. BRIDGEVIEW, IL 60455

TRANSIT CENTER

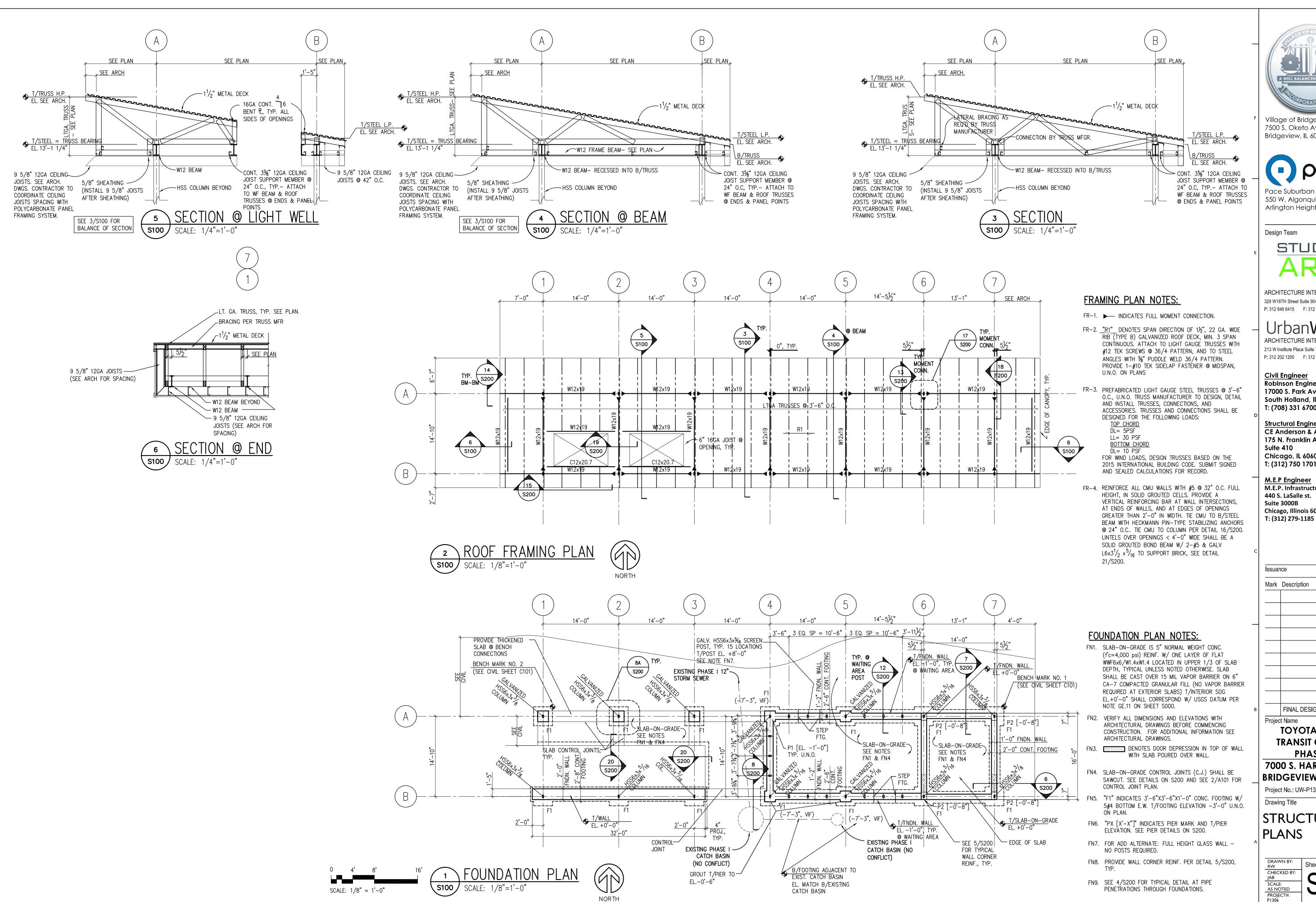
PHASE II

Project No.: UW-P1306 / SA 17-091

Drawing Title

GENERAL NOTES

DRAWN BY:
RW
CHECKED BY:
JAB
SCALE:
AS NOTED
PROJECT#:





Pace Suburban Bus 550 W. Algonquin Road Arlington Heights, IL 60005

Design Team



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M.E.P Engineer M.E.P. Infrastructure Solutions, Inc. 440 S. LaSalle st. Suite 3000B Chicago, Illinois 60605

Issuance Mark Description FINAL DESIGN | 11.27.2017

Project Name TOYOTA PARK TRANSIT CENTER

PHASE II 7000 S. HARLEM AVE. BRIDGEVIEW, IL 60455

Project No.: UW-P1306 / SA 17-091

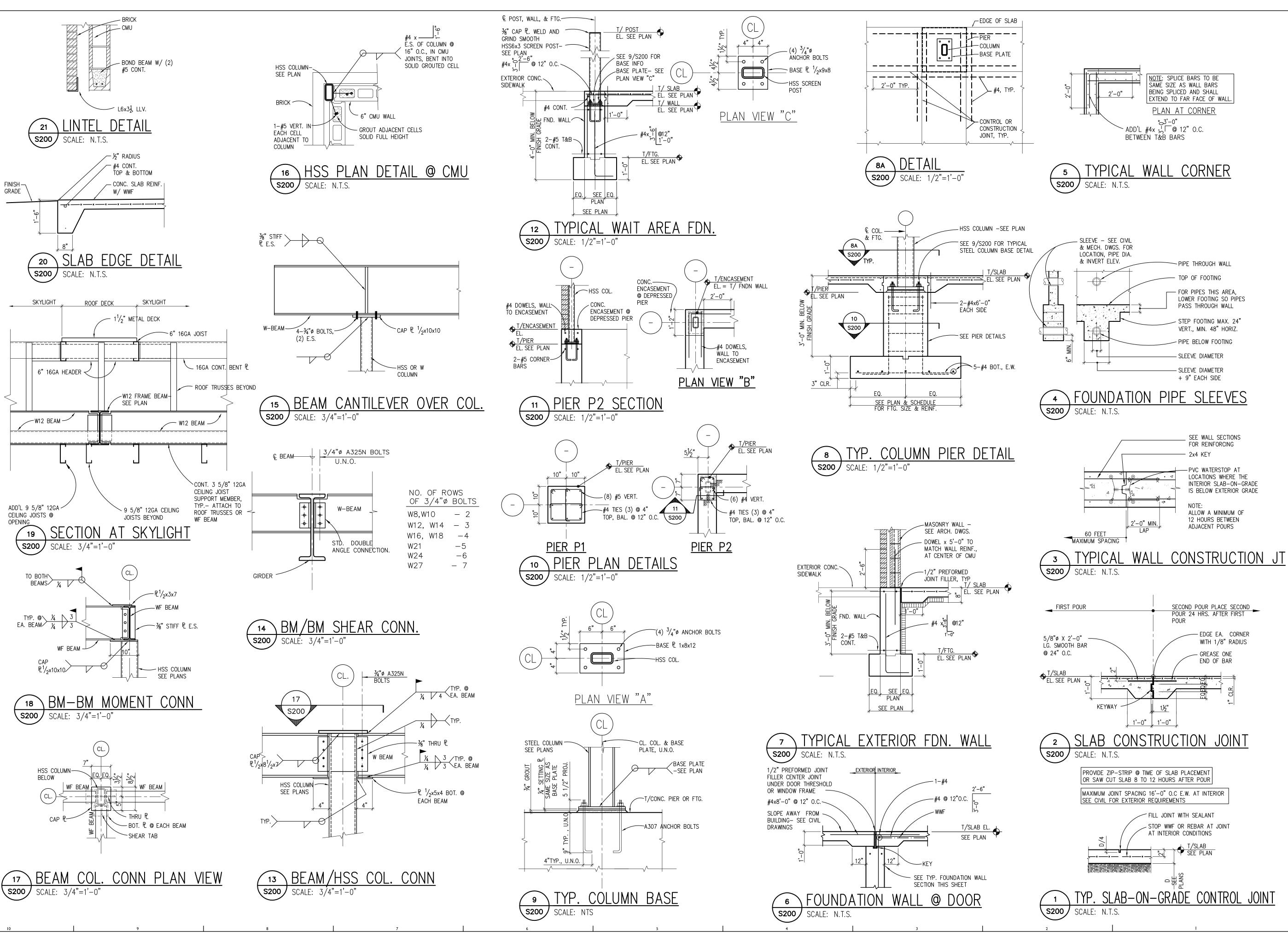
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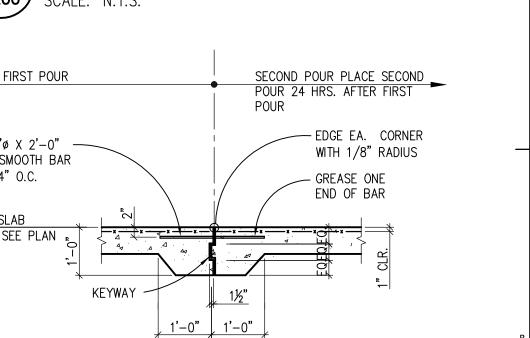
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Issuance

Mark Description



NOTE: SPLICE BARS TO BE

SAME SIZE AS WALL BARS

PLAN AT CORNER

BEING SPLICED AND SHALL EXTEND TO FAR FACE OF WALL.

PIPE THROUGH WALL

- FOR PIPES THIS AREA,

PASS THROUGH WALL

LOWER FOOTING SO PIPES

STEP FOOTING MAX. 24"

VERT., MIN. 48" HORIZ.

PIPE BELOW FOOTING

- SLEEVE DIAMETER

- SLEEVE DIAMETER

SEE WALL SECTIONS

PVC WATERSTOP AT

LOCATIONS WHERE THE

ALLOW A MINIMUM OF

12 HOURS BETWEEN

ADJACENT POURS

INTERIOR SLAB-ON-GRADE IS BELOW EXTERIOR GRADE

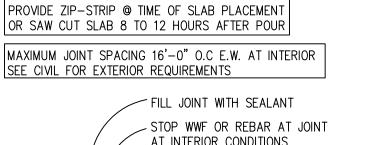
FOR REINFORCING

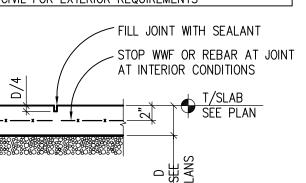
2x4 KEY

+ 9" EACH SIDE

TOP OF FOOTING







TYP. SLAB-ON-GRADE CONTROL JOINT

FINAL DESIGN 11.27.2017 Project Name TOYOTA PARK

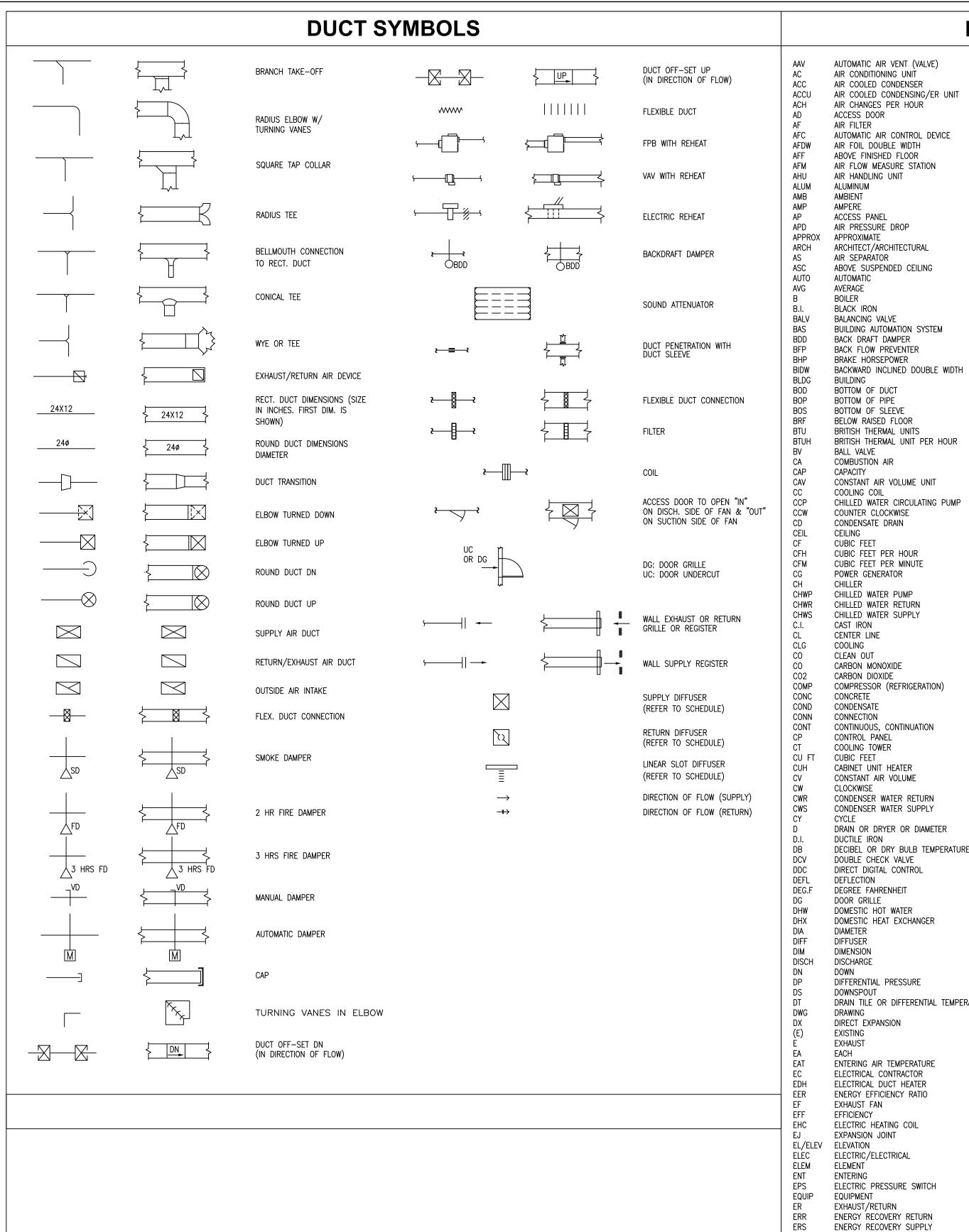
TRANSIT CENTER PHASE II 7000 S. HARLEM AVE.

BRIDGEVIEW, IL 60455

Project No.: UW-P1306 / SA 17-091 Drawing Title

STRUCTURAL **DETAILS**

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P1306



MECHANICAL ABBREVIATIONS

NP OR NPW NON-PORTABLE WATER

OUNCES

PASCAL

PLUMBING

PRESSURE

QUANTITY

RETURN AIR

ROOF DRAIN

REFRIGERANT

REFERENCE

REGISTER

REQUIRED

RETURN FAN

REHEAT COIL

RADIANT FLOOR PUMP

ROOM OR REFRIGERATION VOLUME

REDUCED PRESSURE ZONE BFP

ROOM TEMPERATURE TRANSMITTER

SUPPLY AIR OR SOUND ATTENUATOR

STANDARD CUBIC FEET PER MINUTE

REVOLUTIONS PER MINUTE

RELATIVE HUMIDITY

RELIEF OPENING

ROOFTOP UNIT

SUPPLY FAN

SUPPLY

RELIEF VALVE (VENT)

SENSIBLE COOLING

SMOKE DETECTOR

SEWAGE EJECTOR

SQUARE FEET

SHEET METAL

STATIC PRESSURE

SPECIFICATIONS

SQUARE FEET

STAINLESS STEEL

SERVICE SINK

SHEET

SOLENOID

SQUARE

STORM

STANDARD

THERMOSTAT

TRANSFER AIR

TOTAL COOLING

THERMOMETER THICK

THROUGH

TYPICAL

SELF CONTAINED AC UNIT

STATIC PRESSURE SENSOR

STRUCTURE/STRUCTURAL
TEMPERATURE DIFFERENTIAL

TRANSFER BOOT (DUCT)

TREATED COLD WATER

TEMPERATURE DIFFERENCE TOILET EXHAUST FAN TEMPERATURE TRANSFER GRILLE

TERTIARY HOT WATER PUMP

THERMOSTATIC MIXING VALVE TRANSFER OPENING

TEMPERATURE RISE
TOTAL STATIC PRESSURE
TEMPERATURE TRANSMITTER

UNDERCUT (DOOR)

UNDERGROUND

UNIT VENTILATOR
VOLTAGE OR VENT
VARIABLE AIR VOLUME
VACUUM BREAKER

VOLUME DAMPER

VELOCITY

VERTICAL

VIBRATION VOLUME DAMPER

THERMOMETER INDICATOR (THERMOMETER)

UNIT HEATER (HYDRONIC OR STEAM)

UNLESS OTHERWISE NOTED

VARIABLE FREQUENCY DRIVE

VIBRATION ISOLATION

VENT THROUGH ROOF

WATER COLUMN

WATER HEATER

WIDTH X HEIGHT

WEIGHT

WET BULB TEMPERATURE

WATER HAMMER ARRESTOR WATER MESH SCREEN

WORKING PRESSURE

WATER PRESSURE DROP

WATER FLOW MEASURING DEVICE

TEMPERATURE AND PRESSURE RELIEF VALVE

RETURN

RETURN

OBD

OCPD

OPNG

OS&Y

PCHWP

PGW

PLBG

PPM

PRESS

PSIA

PSIG

REFRIG.

REG

REQ?D

SCFM

SPECS

SPS

SQ. FT.

STD

THRU

VERT

SCU

QTY.

NO REQUIREMENT

OUTSIDE AIR INTAKE

OUTSIDE DIAMETER

OPPOSED BLADE DAMPER

OUTLET VELOCITY OR OVAL

PLUMBING CONTRACTOR

PRESSURE FILL SYSTEM

PRIMARY HOT WATER PUMP

PRESSURE REDUCING VALVE POUNDS PER SQUARE INCH

PRESSURE DROP

PILOT POSITIONER

REVERSE OSMOSIS

RADIATED PANEL

PARTS PER MILLION

PRIMARY CHILLED WATER PUMP

PRESSURE-ELECTRIC SWITCH

PROPYLENE GLYCOL-WATER SOLUTION

POUNDS PER SQUARE INCH ABSOLUTE

POUNDS PER SQUARE INCH GAUGE

OVER CURRENT PROTECTION DEVICE

OUTSIDE SCREW AND YOKE VALVE

NOT TO SCALE

OUTSIDE AIR

	MEC	HAN	IICAL ABBREVIATI
	AUTOMATIC AIR VENT (VALVE) AIR CONDITIONING UNIT	FCU FD	FAN COIL UNIT 2HR FIRE DAMPER
	AIR COOLED CONDENSER AIR COOLED CONDENSING/ER UNIT	3HR FD FH	3HR FIRE DAMPER FUME HOOD
	AIR CHANGES PER HOUR ACCESS DOOR	FL FLA	FLOOR FULL LOAD AMPERES
	AIR FILTER AUTOMATIC AIR CONTROL DEVICE	FLEX FM	FLEXIBLE FLOW METER
	AIR FOIL DOUBLE WIDTH ABOVE FINISHED FLOOR	FOG	FUEL OIL GAUGE
	AIR FLOW MEASURE STATION	FOR FOS FOV	FUEL OIL SUPPLY
	AIR HANDLING UNIT ALUMINUM	FP	FUEL OIL VENT FIRE PROTECTION
	AMBIENT AMPERE	FPB FPI FPM	FAN POWERED TERMINAL BOX FINS PER INCH
	ACCESS PANEL AIR PRESSURE DROP	FPS	FEET PER MINUTE FEET PER SECOND
(APPROXIMATE ARCHITECT/ARCHITECTURAL	FRP FS	FIBER REINFORCED PLASTIC FREEZE STAT
	AIR SEPARATOR ABOVE SUSPENDED CEILING	FT. FT	FEET FLASH TANK
	AUTOMATIC AVERAGE	FT2 FT3	SQUARE FEET CUBIC FEET
	BOILER BLACK IRON	FTR FV	FIN TUBE RADIATION (HOT WATER) FACE VELOCITY
	BALANCING VALVE BUILDING AUTOMATION SYSTEM	G GA	NATURAL GAS GAUGE
	BACK DRAFT DAMPER BACK FLOW PREVENTER	GAL GC	GALLON GENERAL CONTRACTOR
	BRAKE HORSEPOWER BACKWARD INCLINED DOUBLE WIDTH	GCO GCP	GROUND CLEANOUT GLYCOL CIRCULATING PUMP
	BUILDING BOTTOM OF DUCT	GD GE	GRAVITY DAMPER GENERAL EXHAUST
	BOTTOM OF PIPE BOTTOM OF SLEEVE	GEN GHWR	GENERAL GLYCOL HOT WATER RETURN
	BELOW RAISED FLOOR	GHWS	GLYCOL HOT WATER SUPPLY
	BRITISH THERMAL UNITS BRITISH THERMAL UNIT PER HOUR	GIH GPH	GRAVITY INTAKE HOOD GALLONS PER HOUR
	BALL VALVE COMBUSTION AIR	GPM GR	GALLONS PER MINUTE GLYCOL RETURN
	CAPACITY CONSTANT AIR VOLUME UNIT	GRH GRL	GRAVITY RELIEF HOOD GRILLE
	COOLING COIL CHILLED WATER CIRCULATING PUMP	GS GV	GLYCOL SUPPLY GRAVITY VENT
	COUNTER CLOCKWISE CONDENSATE DRAIN	?Н Н	ENTHALPY DIFFERENCE HUMIDITY SENSOR
	CEILING CUBIC FEET	HB HC	HOSE BIBB HEATING COIL
	CUBIC FEET PER HOUR CUBIC FEET PER MINUTE	HCP HCR	HOT WATER CIRCULATING PUMP HEATING/COOLING RETURN
	POWER GENERATOR CHILLER	HCS HD	HEATING/COOLING SUPPLY
	CHILLED WATER PUMP CHILLED WATER RETURN	HEPA HG	
	CHILLED WATER SUPPLY CAST IRON	HL	HIGH LIMIT HORIZONTAL
	CENTER LINE	HORIZ HP	HEAT PUMP OR HORSEPOWER
	COOLING CLEAN OUT	HPC HPS	HIGH PRESSURE STEAM
	CARBON MONOXIDE CARBON DIOXIDE	HR HT	HOUR HUMIDITY TRANSMITTER OR HIGH TEMPERATURE
	COMPRESSOR (REFRIGERATION) CONCRETE	HTG HTR	HEATER
	CONDENSATE CONNECTION	HUM HVAC	HUMIDIFIER HEATING, VENTILATION & AIR CONDITIONING
	CONTINUOUS, CONTINUATION CONTROL PANEL	HW HWP	
	COOLING TOWER CUBIC FEET	HWR HWS	HEATING HOT WATER RETURN HEATING HOT WATER SUPPLY
	CABINET UNIT HEATER CONSTANT AIR VOLUME	HX HZ	HEAT EXCHANGER HERTZ
	CLOCKWISE CONDENSER WATER RETURN	ID IE	INSIDE DIAMETER INVERT ELEVATION
	CONDENSER WATER SUPPLY CYCLE	IN IN W.C.	INCHES
	DRAIN OR DRYER OR DIAMETER DUCTILE IRON	IN W.G. INSUL	INCHES WATER GAUGE INSULATION
	DECIBEL OR DRY BULB TEMPERATURE DOUBLE CHECK VALVE	IR ISOL	INFRARED HEATER ISOLATION
	DIRECT DIGITAL CONTROL DEFLECTION	IW KE	INDIRECT WASTE KITCHEN EXHAUST
	DEGREE FAHRENHEIT	KW	KILOWATT
	DOOR GRILLE DOMESTIC HOT WATER	KWH LAT	KILOWATT HOUR LEAVING AIR TEMPERATURE
	DOMESTIC HEAT EXCHANGER DIAMETER	LAV LBM	LAVATORY POUND MASS
	DIFFUSER DIMENSION	LBS LF	Pounds Linear feet
	DISCHARGE DOWN	LIN LL	LINEAR LOW LIMIT
	DIFFERENTIAL PRESSURE DOWNSPOUT	LLC LPC	LIQUID LEVEL CONTROLLER LOW PRESSURE CONDENSATE
	DRAIN TILE OR DIFFERENTIAL TEMPERATURE DRAWING	LPS LRA	LOW PRESSURE STEAM LOCKED ROTOR AMPERES
	DIRECT EXPANSION EXISTING	LT LTR	LOW TEMPERATURE
	EXHAUST EACH	LTS LVG	LOW TEMPERATURE SUPPLY (COGEN) LEAVING
	ENTERING AIR TEMPERATURE ELECTRICAL CONTRACTOR	LWA LWT	A-WEIGHTED SOLIND POWER LEVEL
	ELECTRICAL DUCT HEATER	M	METER
	ENERGY EFFICIENCY RATIO EXHAUST FAN	MA MAINT MAT	MAKE UP AIR MAINTENANCE
	EFFICIENCY ELECTRIC HEATING COIL	MAU	MAKE-UP AIR LIMIT
٧	EXPANSION JOINT ELEVATION	MAX MBH	
	ELECTRIC/ELECTRICAL ELEMENT	MCA MD	MINIMUM CIRCUIT AMPERES MANUAL DAMPER
	ENTERING ELECTRIC PRESSURE SWITCH	MECH MFR	MECHANICAL MANUFACTURER
	EQUIPMENT EXHAUST/RETURN	MIN MISC	MINIMUM OR MINUTES MISCELLANEOUS
	ENERGY RECOVERY RETURN ENERGY RECOVERY SUPPLY	MLB MMBTUH	THOUSAND POUNDS
	ELECTRIC STATIC PRESSURE EXPANSION TANK	MO MOCP	MOTOR OPERATED DAMPER MAXIMUM OVER CURRENT PROTECTION
	ELECTRIC UNIT HEATER ENTERING WATER TEMPERATURE	N.G. N.O.	NATURAL GAS NORMALLY OPEN
	EXHAUST EXTERIOR		A NOT APPLICABLE
	DEGREE FAHRENHEIT	NC	NORMALLY CLOSE OR NOISE CRITERIA
	HYDRONIC FILTER FLOOR DRAIN	NIC NK	NOT IN CONTRACT NECK
	FREE AREA	NO OR #	NUMBER

NOMINAL

NOM.

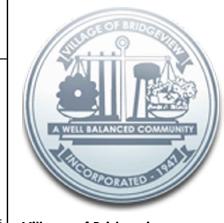
EUH

EXH

FLOOR CLEANOUT

GENERAL NOTES

- 1. THIS IS A GENERAL LIST OF ABBREVIATIONS AND SYMBOLS ON THIS SHEET. SOME ABBREVIATIONS AND SYMBOLS MAY NOT BE APPLICABLE TO THIS PROJECT.
- 2. ALL WORK PERFORMED SHALL CONFORM TO ALL CODES ADOPTED BY THE VILLAGE OF BRIDGEVIEW INCLUDING ANY AMENDMENTS.
- 3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL WORK WITH ALL TRADES PRIOR TO ANY WORK BEING DONE TO ENSURE THAT CONFLICTS DO NOT OCCUR.
- 4. DRAWINGS OF HVAC EQUIPMENT, DUCTWORK AND PIPING SYSTEMS ARE SHOWN DIAGRAMMATIC. ROUTING SHOWN DOES NOT INTEND TO SHOW EVERY RISE, DROP, OFFSET, FITTING NOR EVERY STRUCTURAL ELEMENT THAT MAY BE ENCOUNTERED DURING THE INSTALLATION OF THIS WORK. CONTRACTOR SHALL MAKE ANY REQUIRED CHANGES FROM THE GENERAL ROUTING SHOWN ON THESE DRAWINGS TO COORDINATE WITH THE WORK OF OTHER TRADES AND BUILDING CONSTRUCTION. ALL CHANGES SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER OR DELAY IN THE COMPLETION DATE OF THE PROJECT.
- 5. TEST AND BALANCE SHALL BE COMPLETED BY AN NEBB CERTIFIED TECHNICIAN. SUBMIT TEST REPORT FOR OWNERS APPROVAL AND RECORD.



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Arlington Heights, IL 60005

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FINAL DESIGN	11.27.20

TOYOTA PARK
TRANSIT CENTER

PHASE II
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Project No : LIW-P1306 / SA 17-091

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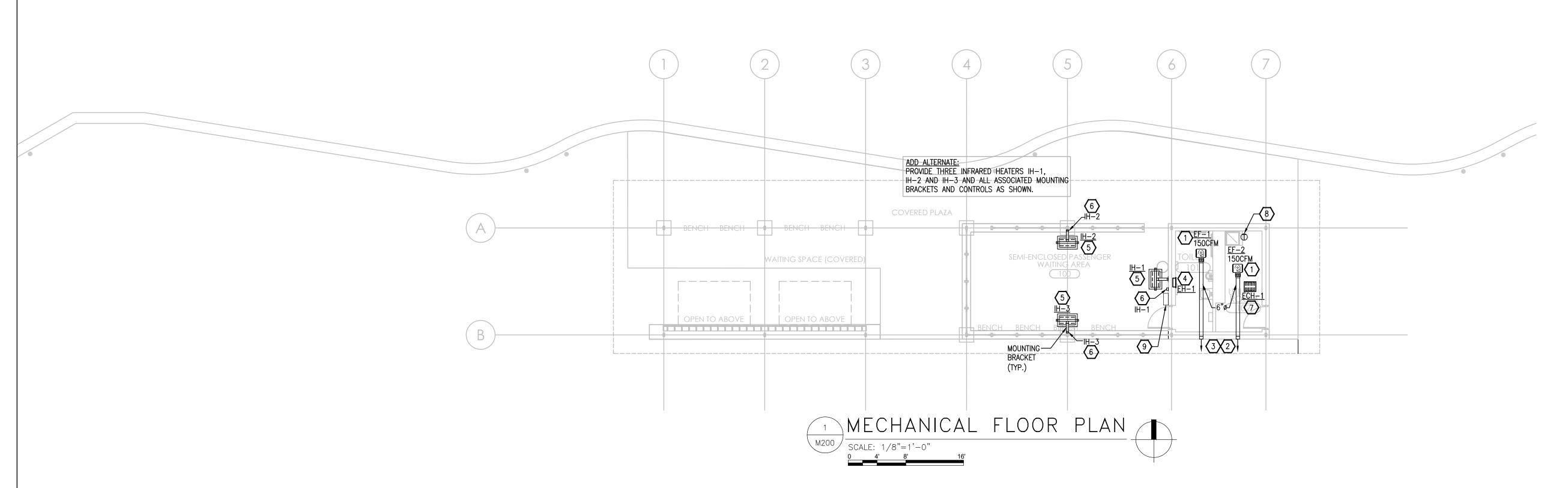
Drawing Title

MECHANICAL NOTES, SYMBOLS, AND ABBREVIATIONS

CHECKED BY:

AS NOTED PROJECT#:

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VENTILATION	SCHEDULE	RAZED	UN	IMC-2012

V - I V I I	ILATION SOILDOL	LL DNOL	D 011 11110 .	2012												
ROOM NO	. ROOM NAME	ROOM AREA	IMC SPACE			ACTUAL NO. OF PEOPLE BASED	PEOPLE DIVERSITY	ACTUAL NO. OF	IMC OA CALCULATIONS				DESIGN AIR FL	LOW RATES (CFM)	- SERVED BY AIR SYSTEM	REMARKS
ROOM NO	. ROOM NAME	(SQ. FT.)	CLASSIFICATION	OCCUPANTS/1000 SFT	NO. OF PEOPLE		FACTOR	PEOPLE WITH DIVERSITY	OA CFM/ PERSON	OA CFM/ SFT	EXH (CFM)	TOTAL OA (CFM)	OA (CFM)	EXH (CFM)	SERVED BY AIR STOTEM	NEWANNS
100	SEMI ENCLOSED PASSENGER WAITING SPACE	452	WAITING	30	14	30	1	30	7.5	0.06	0	200	0	0	-	OPEN TO OUTSIDE
101	TOILET	72	TOILET	N/A	N/A	N/A	N/A	N/A	0	0	150	0	0	150	EF-1	(1) WC, (1) UR
102	UTILITY ROOM	90	JANITOR CLOSET	N/A	N/A	N/A	N/A	N/A	0	0	0	0	0	150	EF-2	-
_	WAITING SPACE (COVERED)	564	WAITING	30	17	30	1	30	7.5	0.06	0	200	0	0	-	OPEN TO OUTSIDE
	TOTAL	1,178	-	-	-	-	-	_	-	-	150	400	0	300	-	WAITING AREAS ARE OPEN TO OUTSIDE

EVN SCHEDINE

L'AN 3	SCHEDULE																
TAG	SERVICE	UNIT LOCATION	MOUNTING	FAN	0011/5	CFM	ESP (IN WG)	RPM	DAMPER -	ELECTRICAL			MANUFACTURER	MODEL	WEIGHT	REMARKS	
1/1/0			MOUNTING	FAN CLASS	DRIVE					BHP	HP	VOLTS	PHASE	WANDFACTURER	INIODEL	(LBS.)	REMARKS
EF-1	TOILET	CEILING	CEILING MOUNTED	ı	DIRECT	150	0.5	1,590	BACK DRAFT	0.07	1/6	120	1	GREENHECK	SP-A200	24	SEE NOTES BELOW
EF-2	UTILITY ROOM	CEILING	CEILING MOUNTED	ı	DIRECT	150	0.5	1,590	BACK DRAFT	0.07	1/6	120	1	GREENHECK	SP-A200	24	SEE NOTES BELOW

1. INTERLOCK FAN WITH LIGHT SWITCH. 2. PROVIDE WEATHER PROOF TERMINATION, BIRD SCREEN AND BACK DRAFT DAMPER. 3. PROVIDE FAN WITH INTEGRAL LOUVERED GRILLE.

INICOADED CICCIDIC LICATED SCHICDING ADD ALTEDNATE

INFRAREL) ELEC	IRIC HEATER S	CHEDULE-	- ADD ALIERNAI	Ł											
TAG	SERVICE	LOCATION	DESCRIPTION	UNIT SIZE W"xH"xD"	HOUSING MATERIAL	REFLECTORS AND END CAPS MATERIAL	HEATING ELEMENT /ELEMENT ENVLOPE	REFLECTOR PATTERN	MOUNTING HEIGHT (FT)	HEATING CAP. (KW)	HEATING INTENSITY. (W/SFT)	NO. OF HEATING LAMPS	VOLTS/ PHASE	BASIS OF MAKE	DESIGN MODEL	REMARKS
IH-1	HEATING	WAITING AREAS	WALL MOUNTED	33" x 10-7/8" x 21-1/2"	20 GAUGE STAINLESS STEEL	.040 GOLD ANODIZED ALUMINUM	COIL TUNGSTEN FILAMENT /SEALED QUARTZ	60° ASYMMETRIC	9'-0"	6	41	3	208/1	MARKEL	343-60-THSS	SEE NOTES
IH-2, IH-3	HEATING	WAITING AREAS	WALL MOUNTED	33" x 10-7/8" x 21-1/2"	20 GAUGE STAINLESS STEEL	.040 GOLD ANODIZED ALUMINUM	COIL TUNGSTEN FILLAMENT /SEALED QUARTZ	60° ASYMMETRIC	9'-0"	5 (EACH)	28.4	2	208/1	MARKEL	342-60-THSS	SEE NOTES

NOTES:

- 1. PROVIDE CONTROL PANEL BOX WITH 24V TRANSFORMER, DEDICATED ELECTRICAL POWER DISCONNECT AND TIMER FOR EACH HEATER. HEATER SHALL BE OPERATED WITH A REMOTE PUSH BUTTON. CONTROL PANEL SHALL BE NEMA 4 RATED FOR OUTDOOR INSTALLATION
- 2. KEEP CLEARANCE FROM COMBUSTIBLES. 3. PROVIDE STAINLESS STEEL ADJUSTABLE WALL MOUNTING BRACKET. 4. PROVIDE HEATER WITH VANDAL RESISTANT SCREEN.
- 5. HEATER SHALL BE RATED FOR OUTDOOR USE WITH NON-CORROSIVE HOUSING, HARDWARE AND MOUNTING BRACKETS WITH NO FERROUS METAL IN THE CONSTRUCTION
- OF THE HEATER.
- 6. PROVIDE WALL MOUNTED BRUSHED METAL BEZELS MOMENTARY PUSH BUTTON SWITCHES, OMRON A30N OR EQUAL AND PROVIDE NEMA TYPE 4 STAINLESS STEEL
- PUSH BUTTON ENCLOSURE, FOR EACH UNIT. MOUNT 48" AFF.

ELECTRIC WALL HEATER SCHEDULE

		DIMENCIONS	SI	JPPLY FA	N	HEATING	TEMP	VOLTS /	EQUA	L TO	
MARK	LOCATION	DIMENSIONS L"XW"XD"	CFM	RPM	HP	CAPACITY (KW)	RISE (°F)	VOLTS/ PHASE	MAKE	MODEL	REMARKS
EH-1	TOILET	26X18X4-1/4	300	1,400	0.06	3	30	208/3	MARKEL	3450	SEE NOTES BELOW
NOTES:											

1. PROVIDE WALL BOX. 2. UNIT MOUNTED THERMOSTAT BY MANUFACTURER. 3. DISCONNECT SWITCH BY MANUFACTURER.

ELECTRIC CEILING HEATER SCHEDULE

					DIMENCIONS	Sl	JPPLY FA	.N	HEATING	TEMP	VOLTS /	EQUA	L TO	
	MARK	LOCATION	MOUNTING	STYLE	DIMENSIONS L"XD"XH"	CFM	RPM	HP	CAPACITY (KW)	RISE (°F)	VOLTS/ PHASE	MAKE	MODEL	REMARKS
	ECH-1	UTILITY ROOM	CEILING SURFACE MOUNT	CEILING-DOWN FLOW	20"x16.5"x5.75"	300	1,400	0.06	4	30	208/3	QMARK	CDF-500 SERIES	SEE NOTES BELOW
_	NOTEO.	·	-	·	·								-	

1. PROVIDE LOW VOLTAGE TRANSFORMER AND REMOTE LOW VOLTAGE THERMOSTAT. 2. DISCONNECT SWITCH BY MANUFACTURER.

3. CONVERT IN FIELD TO 3KW, COORDINATE WITH MANUFACTURER. 4. COORDINATE FINAL HEATER SELECTION, INSTALLATION AND CONTROLS WITH MANUFACTURER

KEY NOTES:

- 1 CEILING EXHAUST FAN. SUPPORT FROM CEILING.
- TERMINATE EXHAUST DUCT THROUGH EXTERIOR WALL AT LEAST 8FT ABOVE GRADE LEVEL. TERMINATE WITH VENT
- insulate exhaust duct with 1" fiber glass blanket provided with vapor barrier. Typical.
- RECESSED WALL ELECTRIC HEATER WITH INTEGRAL CONTROLS.
- 5 WALL MOUNTED ELECTRIC INFRARED HEATER.
- 6 PROVIDE PUSH BUTTON TO ACTIVATE INFRARED HEATER. INSTALL 48" ABOVE FLOOR FINISH.
- 7 CEILING TYPE ELECTRIC, FORCED AIR SURFACE MOUNTED HEATER. PROVIDE CEILING MOUNTING BRACKET TO SUPPORT UNIT FROM CEILING STRUCTURE.
- REMOTE T-STAT TO CONTROL ELECTRIC UNIT HEATER. INSTALL 48" ABOVE FLOOR LEVEL.
- 9 INFRARED ELECTRIC HEATER CONTROL PANEL. MOUNT AT 9'-0" AFF



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Mark	Description	Date		
		1		
	FINAL DESIGN	11.27.201		

Project Name

TOYOTA PARK TRANSIT CENTER PHASE II

7000 S. HARLEM AVE.

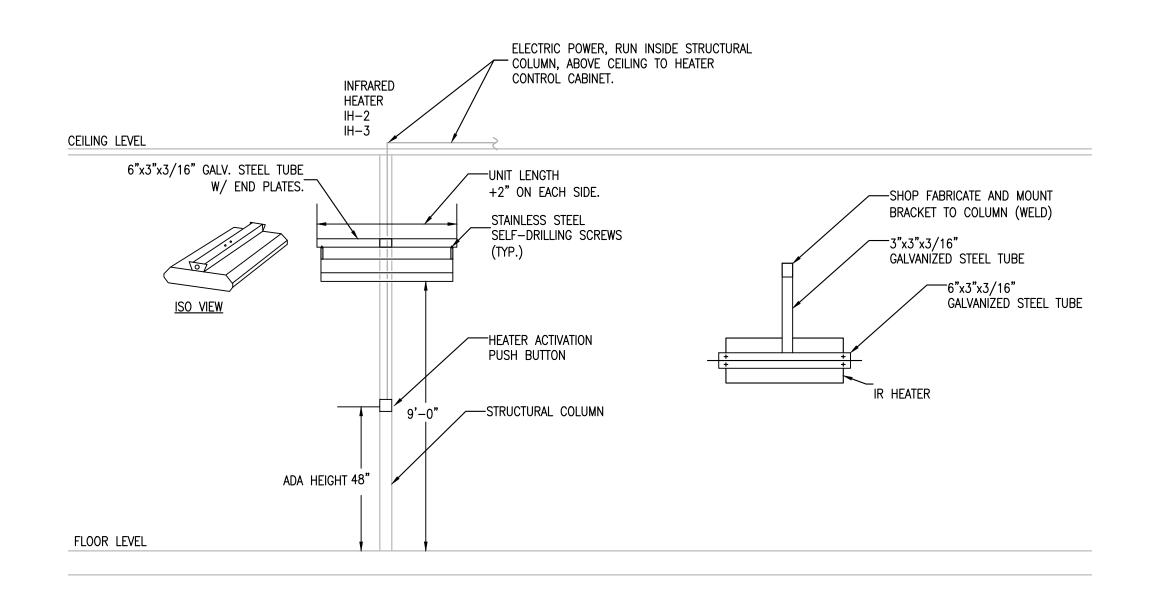
BRIDGEVIEW, IL 60455 Project No.: UW-P1306 / SA 17-091

MECHANICAL FLOOR PLAN

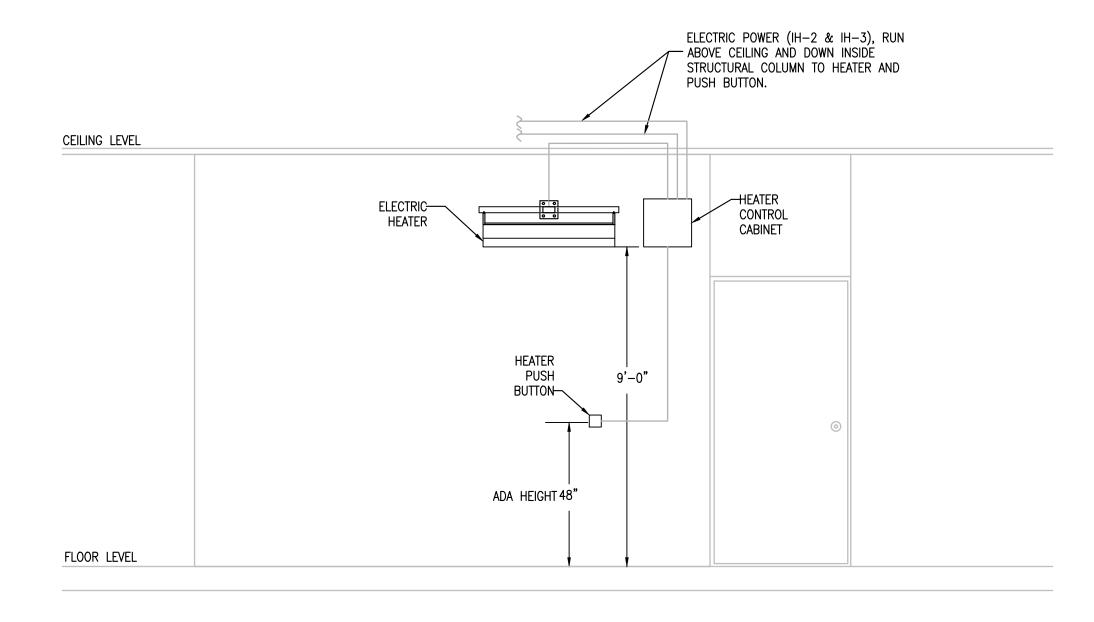
DRAWN BY: CHECKED BY:

SCALE: AS NOTED PROJECT#:

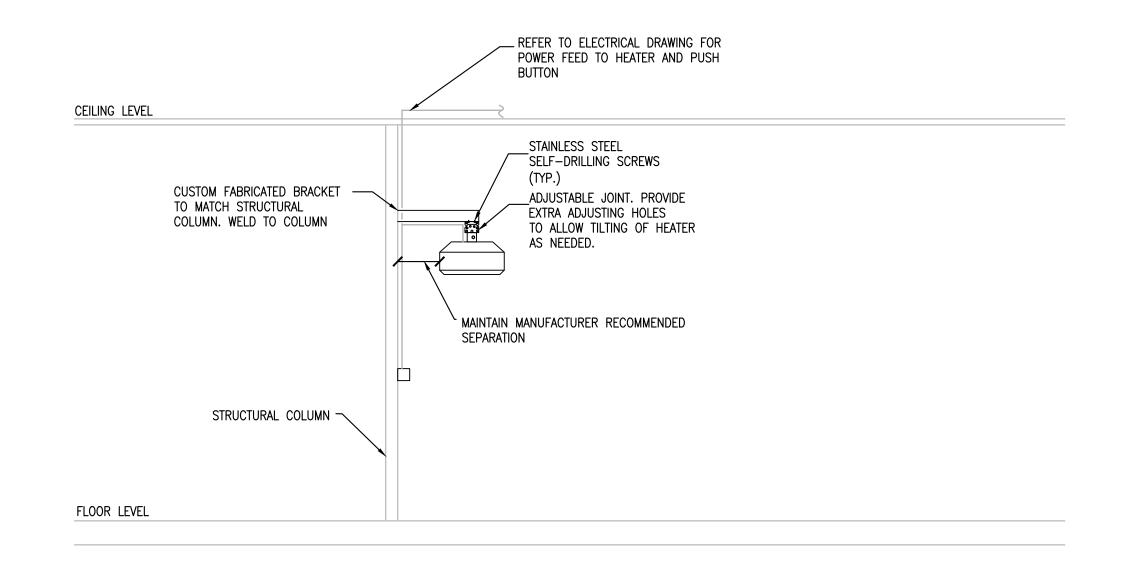
Drawing Title



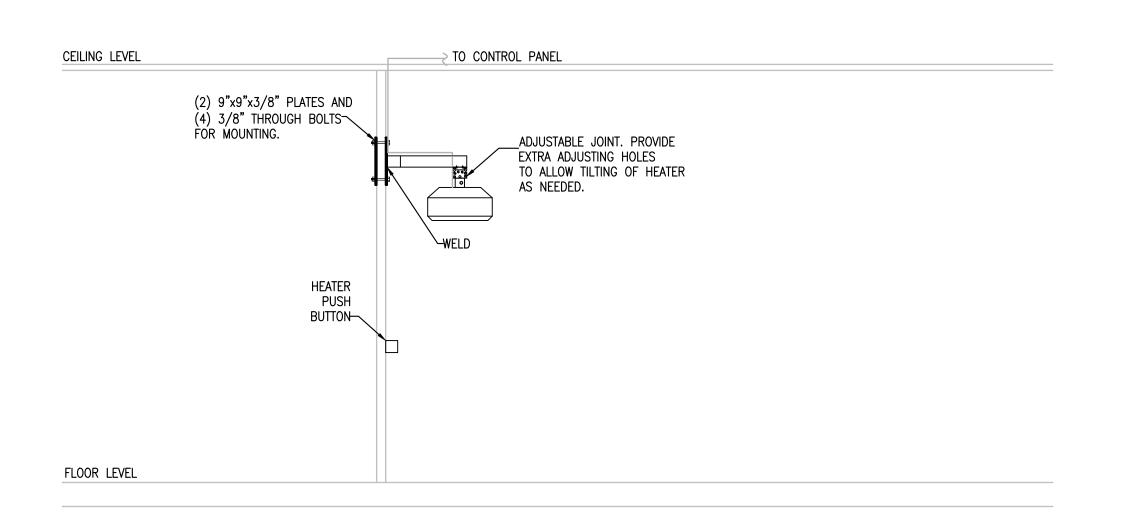
INFRARED HEATER (IH-2, IH-3) FRONT VIEW M300 SCALE NO SCALE



INFRARED HEATER IH-1 LAYOUT



M300 SCALE NO SCALE







Village of Bridgeview 7500 S. Oketo Avenue Bridgeview, IL 60455



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Arlington Heights, IL 60005

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Mark	Description	Date
	FINAL DESIGN	11.27.2017

TOYOTA PARK TRANSIT CENTER PHASE II

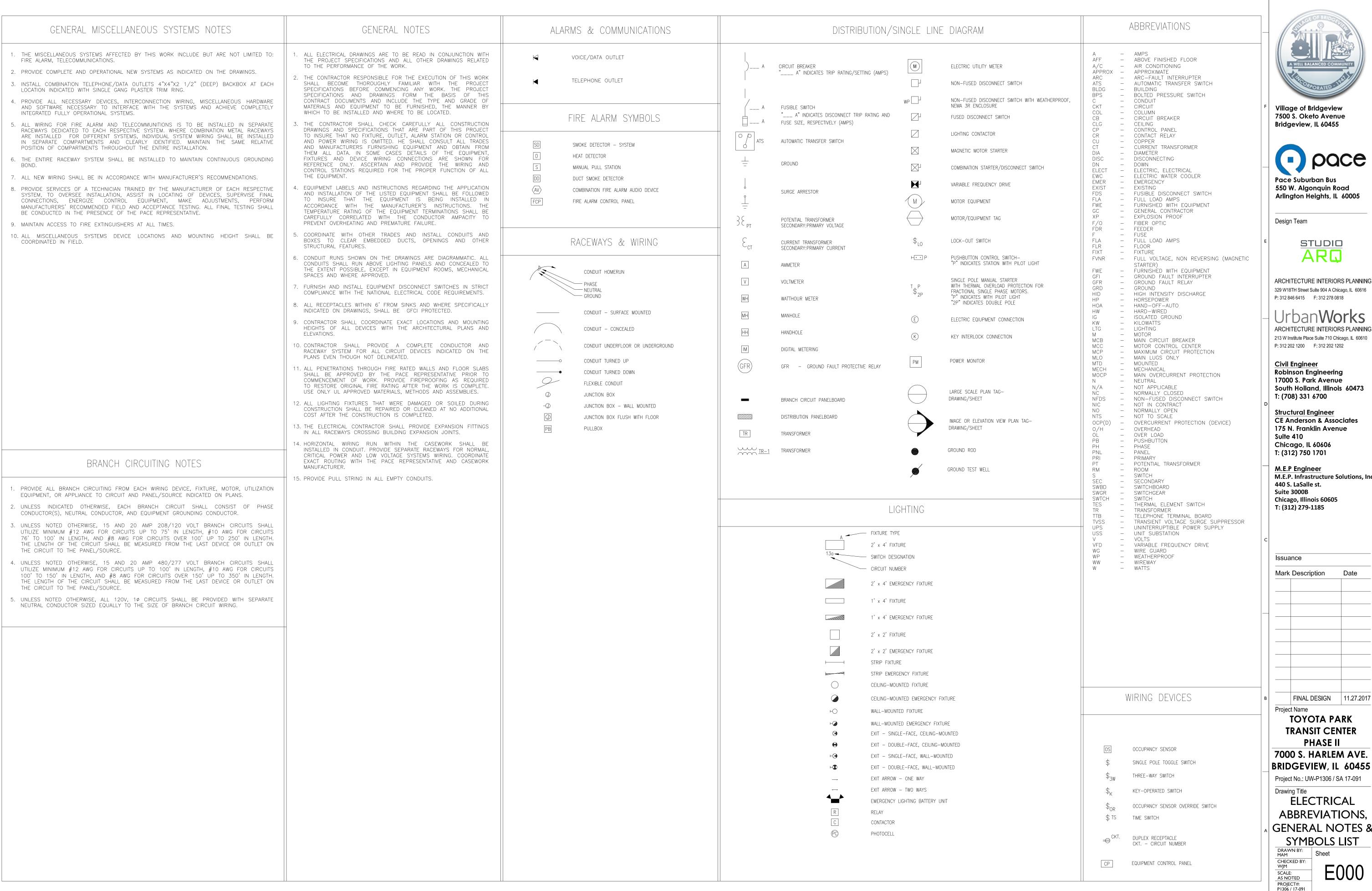
7000 S. HARLEM AVE. BRIDGEVIEW, IL 60455

Project No.: UW-P1306 / SA 17-091 Drawing Title

MECHANICAL DETAILS

SCALE: AS NOTED PROJECT#: P1306 / 17-091

M300







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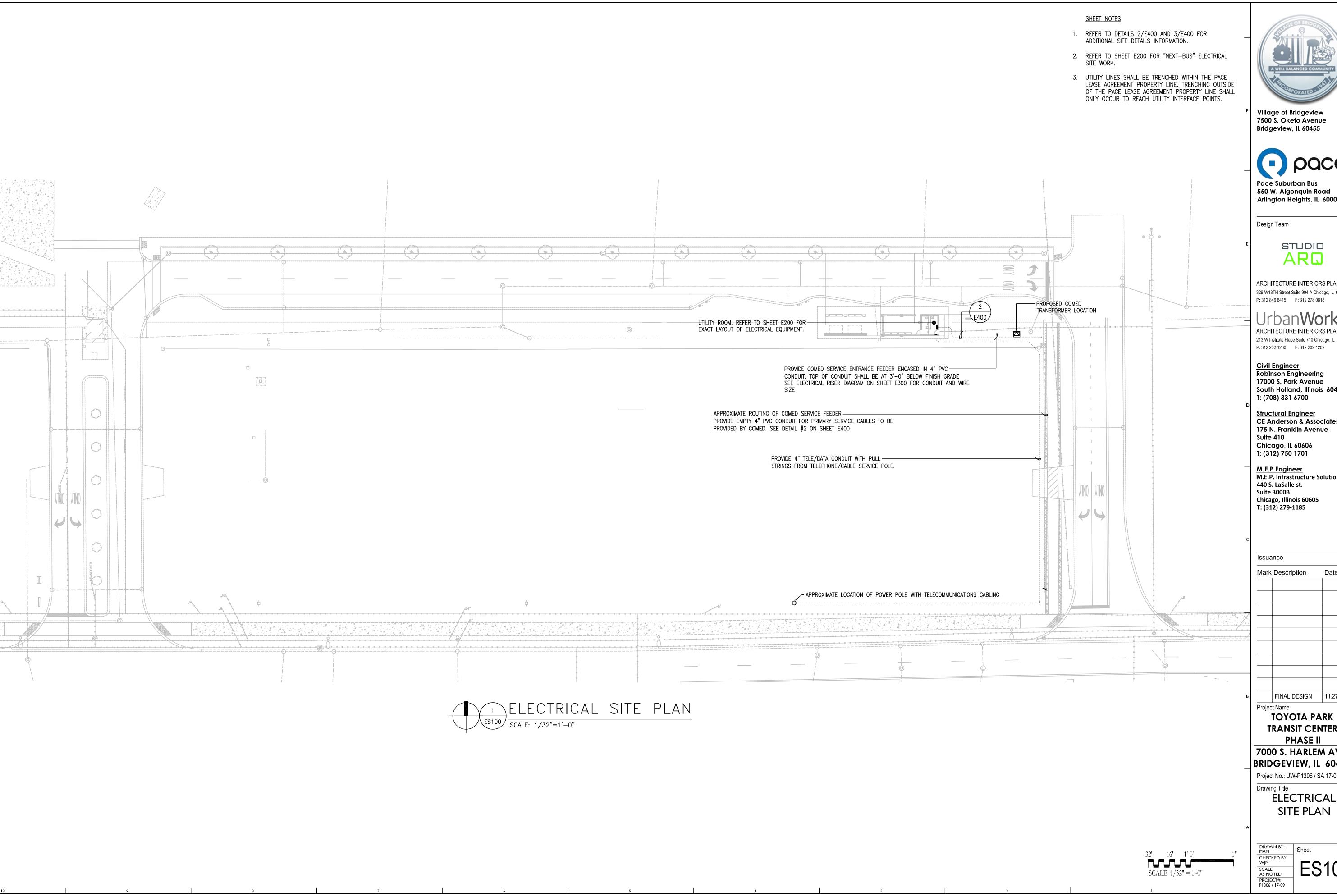
| FINAL DESIGN | 11.27.2017

TOYOTA PARK TRANSIT CENTER 7000 S. HARLEM AVE.

Project No.: UW-P1306 / SA 17-091

ELECTRICAL ABBREVIATIONS. GENERAL NOTES &

SYMBOLS LIST







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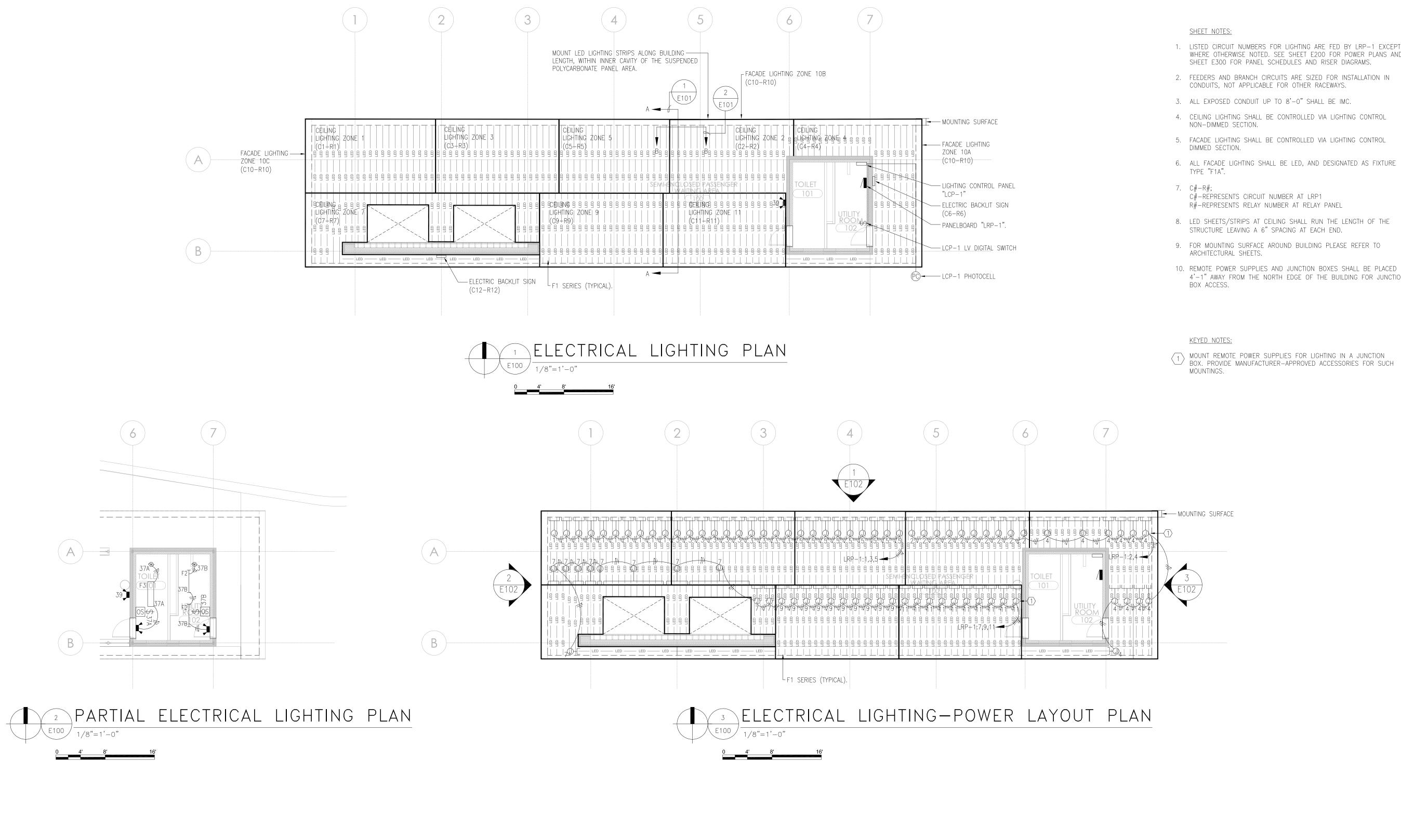
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		Mark Description FINAL DESIGN

TOYOTA PARK TRANSIT CENTER

7000 S. HARLEM AVE. BRIDGEVIEW, IL 60455

Project No.: UW-P1306 / SA 17-091

SITE PLAN



- 1. LISTED CIRCUIT NUMBERS FOR LIGHTING ARE FED BY LRP-1 EXCEPT WHERE OTHERWISE NOTED. SEE SHEET E200 FOR POWER PLANS AND SHEET E300 FOR PANEL SCHEDULES AND RISER DIAGRAMS.
- 2. FEEDERS AND BRANCH CIRCUITS ARE SIZED FOR INSTALLATION IN
- 3. ALL EXPOSED CONDUIT UP TO 8'-0" SHALL BE IMC.
- 4. CEILING LIGHTING SHALL BE CONTROLLED VIA LIGHTING CONTROL
- 5. FACADE LIGHTING SHALL BE CONTROLLED VIA LIGHTING CONTROL
- 6. ALL FACADE LIGHTING SHALL BE LED, AND DESIGNATED AS FIXTURE
- C#-REPRESENTS CIRCUIT NUMBER AT LRP1 R#-REPRESENTS RELAY NUMBER AT RELAY PANEL
- 8. LED SHEETS/STRIPS AT CEILING SHALL RUN THE LENGTH OF THE STRUCTURE LEAVING A 6" SPACING AT EACH END.
- 9. FOR MOUNTING SURFACE AROUND BUILDING PLEASE REFER TO
- 4'-1" AWAY FROM THE NORTH EDGE OF THE BUILDING FOR JUNCTION E

MOUNT REMOTE POWER SUPPLIES FOR LIGHTING IN A JUNCTION BOX. PROVIDE MANUFACTURER-APPROVED ACCESSORIES FOR SUCH

Village of Bridgeview 7500 S. Oketo Avenue Bridgeview, IL 60455



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Mark Description	Date
FINAL DESIGN	11.27.2017
	Mark Description

TOYOTA PARK TRANSIT CENTER PHASE II 7000 S. HARLEM AVE. BRIDGEVIEW, IL 60455

Project No.: UW-P1306 / SA 17-091 Drawing Title

ELECTRICAL LIGHTING PLAN

DRAWN BY: MAM	Sheet
CHECKED BY: WJM	
SCALE: AS NOTED	
PROJECT#: P1306 / 17-091	

E100

SHEET NOTES:

 ALL LED LIGHTING SHALL BE PLACED EQUALLY THROUGHOUT CEILING AND BETWEEN JOIST FOR EQUAL DISTRIBUTION OF LIGHT. REFER TO ARCHITECTURAL DRAWINGS FOR ROOF PLAN AND ROOF DETAILS



Village of Bridgeview 7500 S. Oketo Avenue Bridgeview, IL 60455



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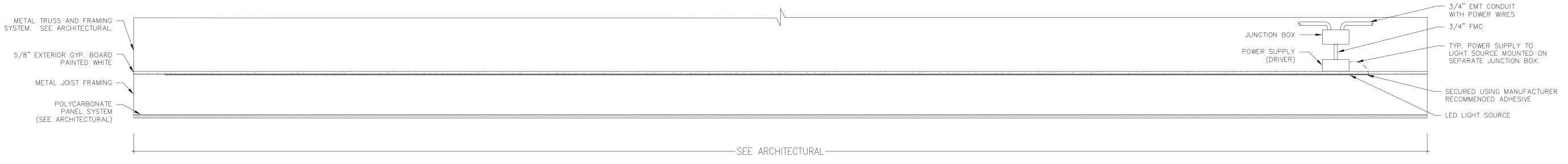
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В	FINAL DESIGN	11.27.2017
	Project Name	A DIZ

Project Name
TOYOTA PARK
TRANSIT CENTER
PHASE II
7000 S. HARLEM AVE.
BRIDGEVIEW, IL 60455

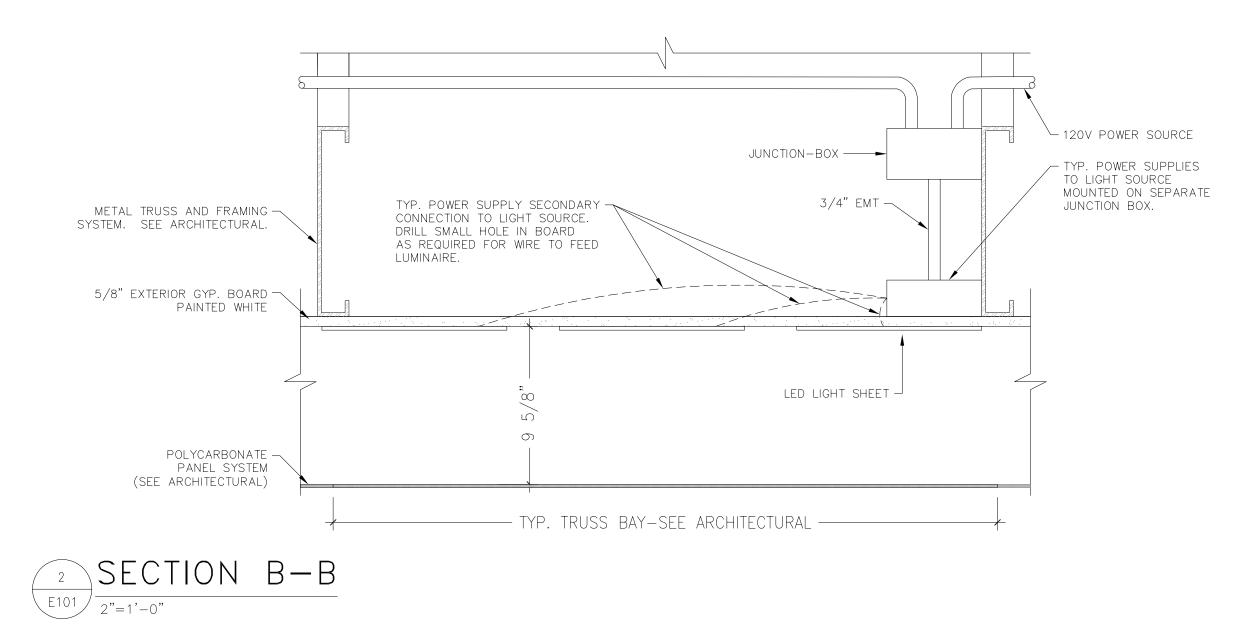
Project No.: UW-P1306 / SA 17-091

Drawing Title
ELECTRICAL
LIGHTING
DETAILS

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PROJECT#: P1306 / 17-091	





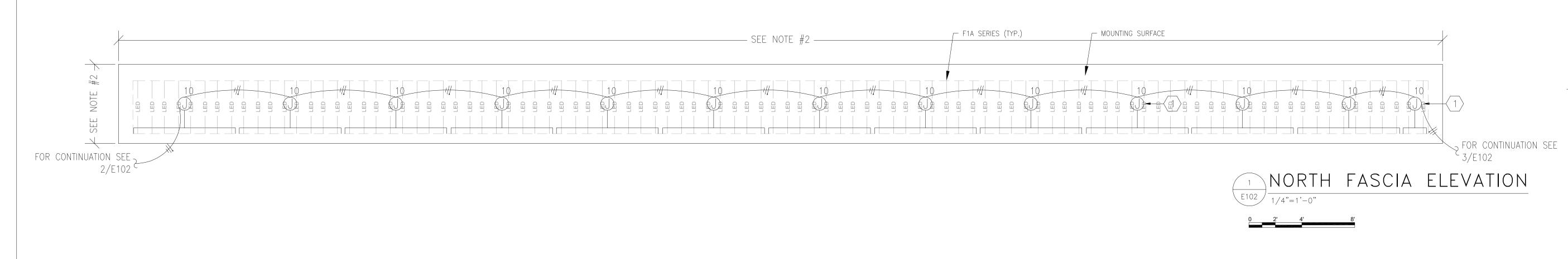


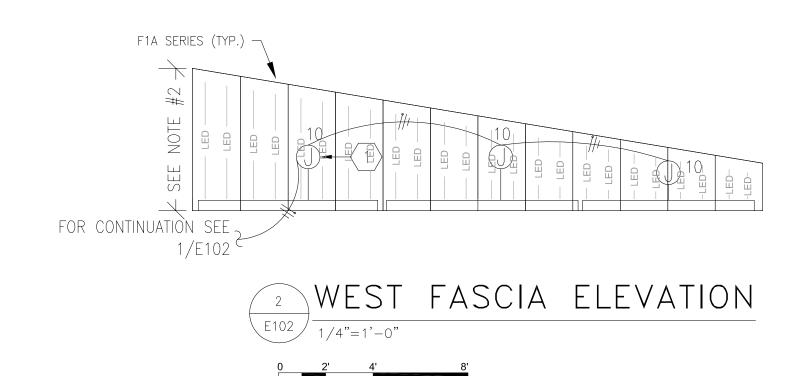
SHEET NOTES:

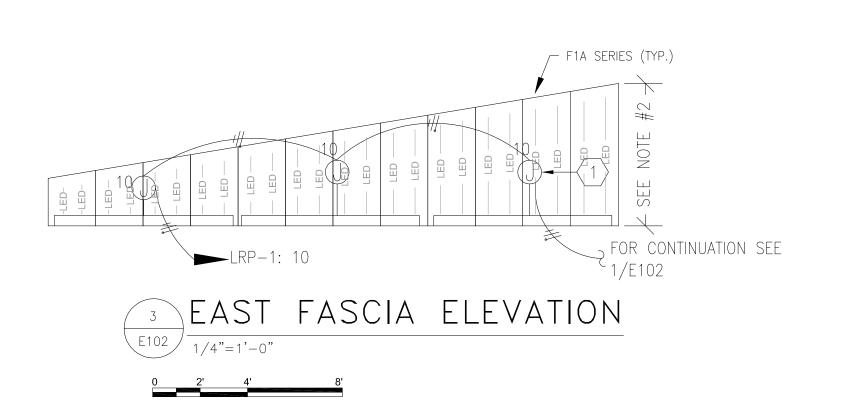
- 1. F1A SERIES TYP. THROUGHOUT LAYOUT.
- 2. REFER TO ARCHITECTURAL DRAWINGS FOR PANEL DIMENSIONS.
- 3. FASCIA LIGHTING SHALL BE CONTROLLED VIA LIGHTING CONTROL DIMMED
- 4. ALL FASCIA LIGHTING SHALL BE LED.
- 5. FOR MOUNTING SURFACE DIMENSIONS, REFER TO ARCHITECTURAL

KEYED NOTES:

MOUNT REMOTE POWER SUPPLY FOR LIGHTING IN A JUNCTION BOX. PROVIDE MANUFACTURER—APPROVED ACCESSORIES FOR SUCH MOUNTINGS.









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В	FINAL DESIGN	11.27.20
	Project Name	1
	TOYOTA PA	ARK

TRANSIT CENTER PHASE II 7000 S. HARLEM AVE.

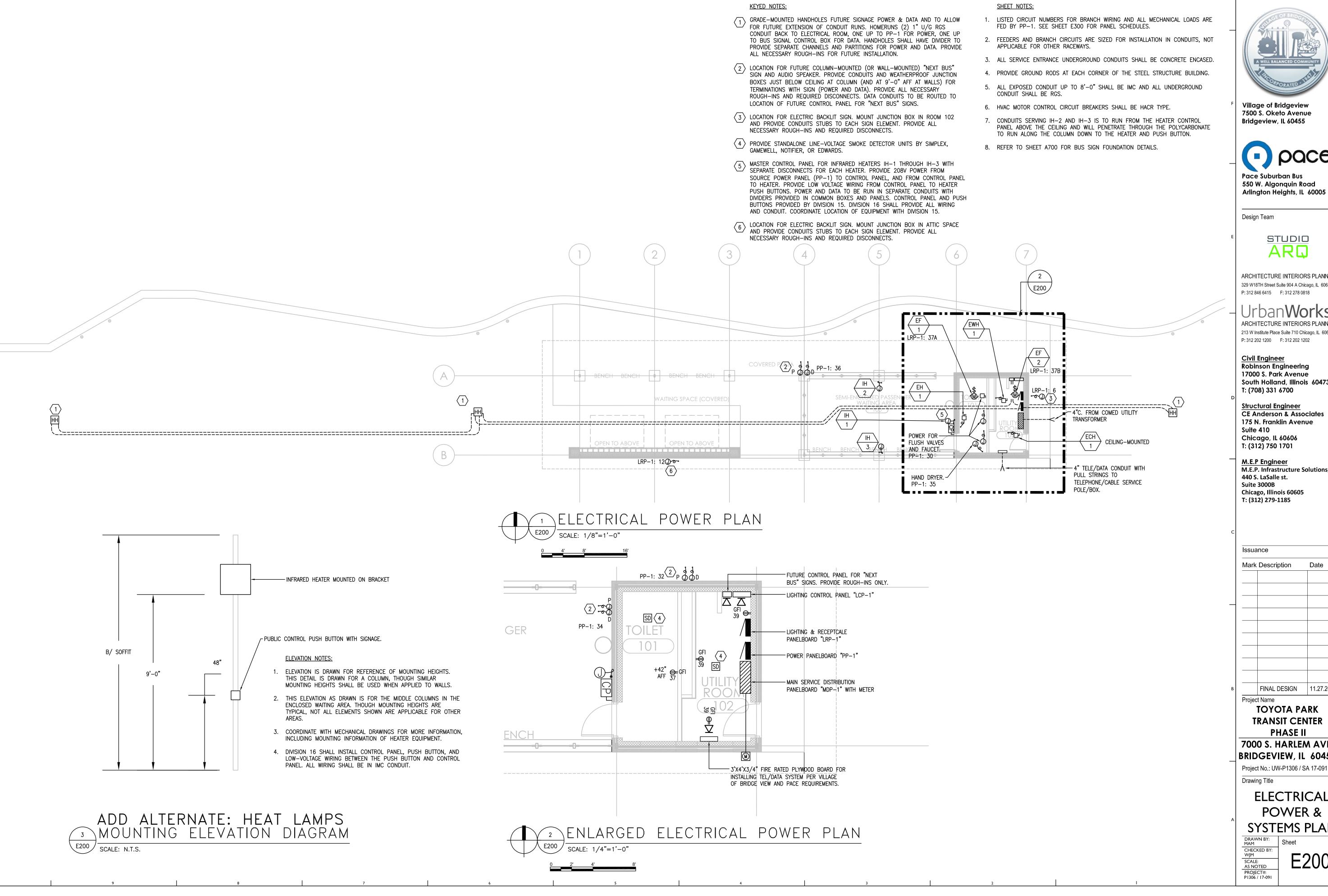
BRIDGEVIEW, IL 60455 Project No.: UW-P1306 / SA 17-091

Drawing Title

ELECTRICAL LIGHTING **FASCIA**

ELEVATIONS

DRAWN BY: MAM CHECKED BY: WJM SCALE: AS NOTED PROJECT#: P1306 / 17-091







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	FINAL DESIGN	11.27.201		

IOYOIA PARK TRANSIT CENTER

PHASE II 7000 S. HARLEM AVE. BRIDGEVIEW, IL 60455

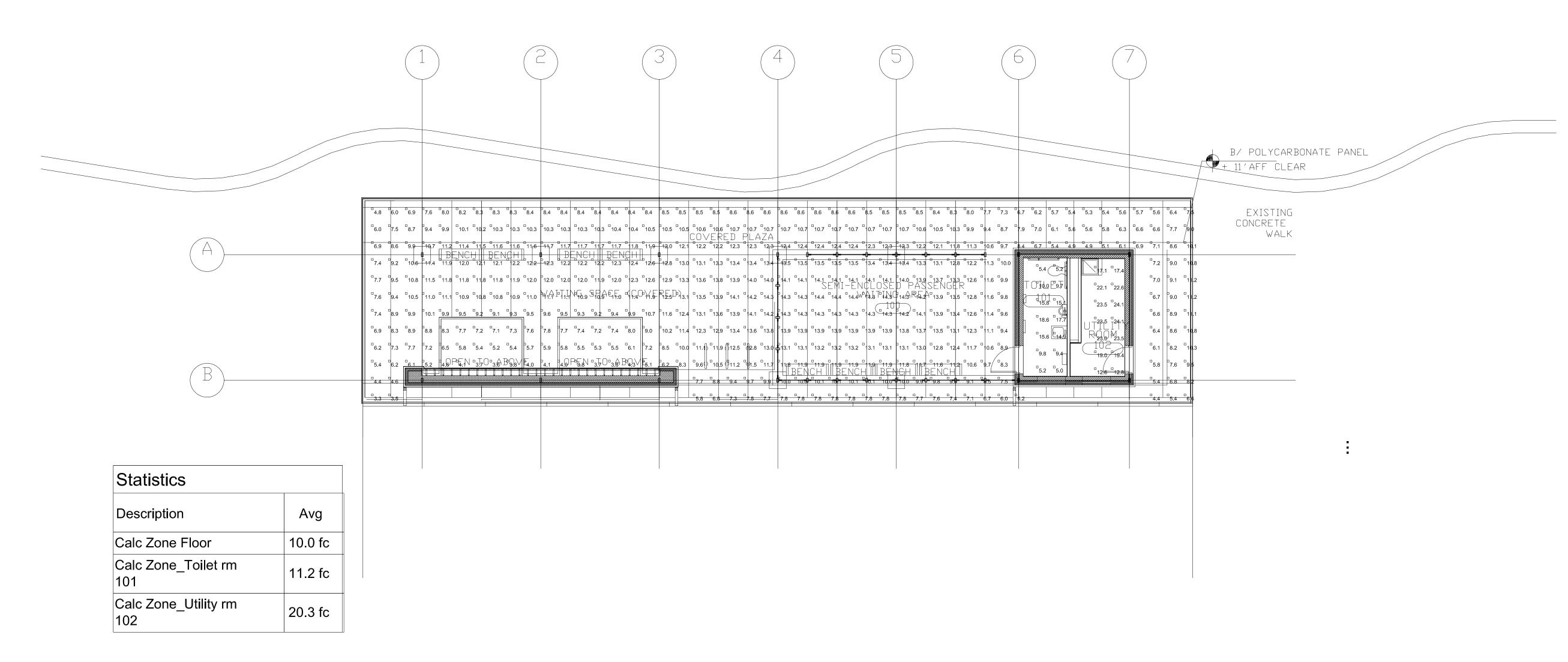
Project No.: UW-P1306 / SA 17-091 Drawing Title

ELECTRICAL POWER & SYSTEMS PLAN

DRAWN BY: MAM CHECKED BY: WJM E200 SCALE: AS NOTED PROJECT#: P1306 / 17-091

SHEET NOTES:

1. PHOTOMETRICS ARE FOR REFERENCE ONLY AND SHALL NOT BE USED FOR MATERIAL TAKE-OFFS OR LABOR ESTIMATES.



Schedule											
Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Filename	Lumens Per Lamp	Light Loss Factor	Wattage
	Н	1524	Cooledge Lighting	TILE	TILE Exterior 600 lm	96 White LEDs	1	TILE Exterior 600lm 3500 IES.ies	599.9815	0.8	5.4
	K	1	Lithonia Lighting	SBL4 30L EZ1 LP835	SBL4, 3000 NOMINAL LUMENS, 3500K.	LED	1	SBL4_30L_EZ1_LP835.ies	3168.538	0.8	27
	L	2	PHILIPS DAY-BRITE - PHILIPS CFI	FSSEZ440L840-UNV	4' FLUXSTREAM STRIP EZ BlineC 4.44L6 4000K BOARD	LED. LUMINAIRE OUTPUT = 3653 LUMENS	1	FSSEZ440L840-UNV.IES	3652.052	0.8	32.1



Village of Bridgeview 7500 S. Oketo Avenue Bridgeview, IL 60455



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	Issua	ince	
	Mark	Description	Date
В		FINAL DESIGN	11.27.2017
		t Name	
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TOYOTA PARK
TRANSIT CENTER
PHASE II
7000 S. HARLEM AVE.
BRIDGEVIEW, IL 60455

Project No.: UW-P1306 / SA 17-091

Drawing Title

PHOTOMETRICS

DRAWN BY: MAM	Sheet
CHECKED BY: WJM	
SCALE: AS NOTED	E20
PROJECT#:	

TAG	SYMBOL	DESCRIPTION	MANUFACTURER / MODEL NUMBER	LAMPS QTY.	LAMPS TYPE	VOLTAGE	WATTS	MOUNTING	NOTES
F1	— rep —	LOW-VOLTAGE, ENERGY EFFICIENT. SMALL PROFILE LED SHEETS FOR LED POWER SUPPLY (DRIVER).	BASIS OF DESIGN: 1. COOLEDGE TILE-INT-600-30-WHT	MULTI	LED	120	5.6 W/Ft PER 12"X12" SQUARE	SURFACE	1,3,4,5
F1A (FASCIA)	FED	LOW-VOLTAGE, ENERGY EFFICIENT. SMALL PROFILE LED SHEETS FOR WET LOCATIONS AND WET-RATED LED POWER SUPPLY.	BASIS OF DESIGN: 1. COOLEDGE TILE-EXT-600-30	MULTI	LED	120	5.6 W/Ft PER 12"X12" SQUARE (1-FT SEGMENTS)	SURFACE	1,3,4,5
F2	⊢	INDUSTRIAL STRIP SURFACE MOUNTED LED STRIP LIGHT	LITHONIA #CDS-24-MVOLT-35K-80CRI-WH OR EQUAL BY LIGHTOLIER	MULTI	LED	120	21	SURFACE	
F3		SURFACE MOUNTED WRAPAROUND LED FIXTURE	LITHONIA #SBL4-3000LM-80CRI-35K-NODIM-ZT-MVOLT OR EQUAL BY ACUITY OR LIGHTOLIER	MULTI	LED	120	25.5	SURFACE	
EX	⊗ +⊗ <u>⊕</u> + <u>③</u>	LED EXIT SIGN. PROVIDE SINGLE OR DOUBLE FACE AS REQUIRED, WHITE HOUSING, RED LETTERS. PROVIDE LONG LIFE LEAD SEALED NICKEL CADMIUM MAINTENCANCE FREE LONG LIFE BATTERY	LITHOIA #LQM-S-W-3-R-120/277-ELN-SD OR EQUAL BY COOPER OR LIGHTOLIER		LED	120	4.8	SURFACE	2
EBU	₩	EMERGENCY BATTERY UNIT WITH SEALED NICKEL CADMIUM BATTERY AND 2 HEADS WITH 12 HIGH POWER LED'S LAMPS EACH	LITHONIA #ELM2-LED-SD OR EQUAL BY COOPER OR LIGHTOLIER		LED	120	6	SURFACE	

NOTES:

- 1. FIXTURE SHALL BE SURFACE MOUNTED AT THE CEILING CAVITY. COORDINATE WITH PRODUCT VENDOR FOR INSTALLATION INSTRUCTIONS.
- 2. PROVIDE UNIVERSAL MOUNTING ACCESSORIES FOR CEILING, WALL, OR PENDANT; SINGLE OR DOUBLE FACE WITH DIRECTIONAL ARROWS AS REQUIRED.
- 3. CEILING LED'S (F1) ARE NON-DIMMED.
- 4. FASCIA LED'S (F1A) ARE DIMMED.
- 5. LED SHEETS/STRIPS SHALL RUN THE WIDTH OF THE STRUCTURE, LEAVING 6" ON EACH END. UNLESS NOTED OTHERWISE.

						МО	TOR/E	QUIPMEN	Γ WIRING SCHEDU	JLE				
TAG	DESCRIPTION		ELECTRICAL RATING S					STANDBY	STANDRY BRANCH CIRCUIT(1)			LOCAL DISCONNECT(1)		
		HP	kW	FLA	VOLTS	PH	W	PWR? Y/N	SOURCE	SIZE(2)	TYPE	TYPE	SIZE (SW/FU)	NOTES
EF-1	TOILET EXHAUST FAN	1/6	-	-	115	1	2	N	LRP-1	2#12 & 1#12GRD, 3/4"C	-	-	-	1
EF-2	UTILITY ROOM EXHAUST FAN	1/6	-	-	115	1	2	N	LRP-1	2#12 & 1#12GRD, 3/4"C	-	-	-	1
EH-1	ELECTRIC WALL HEATER	_	5	14	208	3	3	N	PP-1	3#12 & 1#12GRD, 3/4"C	-	FWE	-	_
ECH-1	CEILING-MOUNT ELECTRIC UNIT HEATER	-	5	14	208	3	3	N	PP-1	3#12 & 1#12GRD, 3/4"C	-	FWE	-	-
EWH-1	ELECTRIC WATER HEATER	_	1.5	12.5	120	1	2	N	PP-1	2#12 & 1#12GRD, 3/4"C	-	NFDS	20A/1P	4
IH-1	INFRARED HEATER	_	6	29	208	1	2	N	PP-1	2#8 & 1#10GRD, 3/4"C	CP-FWE	NFDS	60A/3P	2,3
IH-2	INFRARED HEATER	-	5	24	208	1	2	N	PP-1	2#8 & 1#10GRD, 3/4"C	CP-FWE	NFDS	60A/3P	2,3
IH-3	INFRARED HEATER	_	5	24	208	1	2	N	PP-1	2#8 & 1#10GRD, 3/4"C	CP-FWE	NFDS	60A/3P	2,3

(1) - OBTAIN SUPPLIERS SHOP DRAWINGS/WIRING DIAGRAMS TO VERIFY PRIOR TO ROUGH-IN (2) - TAG REFERS TO FEEDER SCHEDULE UNLESS NOTED OTHERWISE

ABBREVIATIONS

FDS FUSIBLE DISCONNECT SWITCH (SWITCH/FUSE/POLES)
FLA FULL LOAD AMPS

FULL LOAD AMPS KW KILOWATTS
FURNISHED WITH EQUIPMENT N/A NOT APPLICABLE
HORSEPOWER NFDS NON-FUSED DISCONNECT SWITCH (AMPS/POLES)

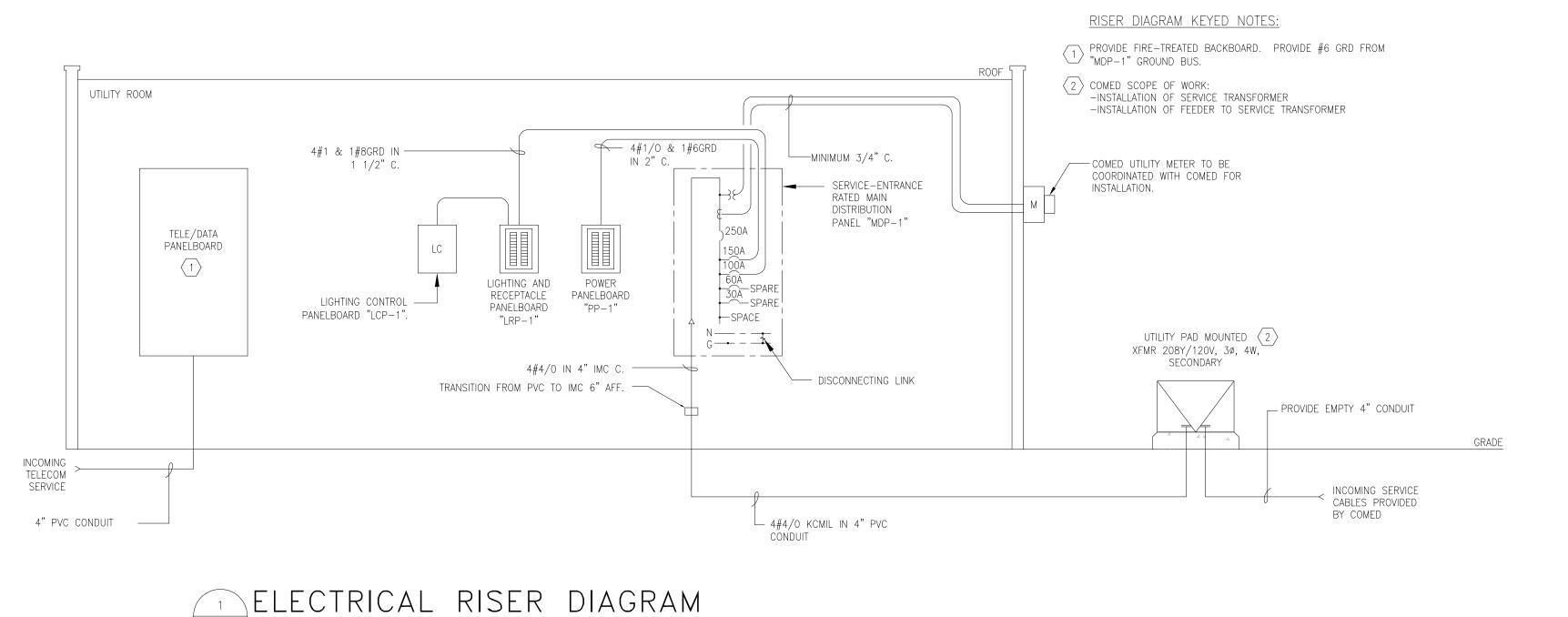
NOTES

- 1. EXHAUST FAN IS TO BE CONTROLLED BY LIGHT SWITCH IN ROOM.
- PROVIDE AS AN ADD ALTERNATE: HEAT LAMPS.
 DISCONNECT SWITCH, PUSH BUTTON STATION AND CONTROLLER FURNISHED BY MECHANICAL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR.

HW HARDWIRED

4. DISCONNECT SWITCH PROVIDED BY ELECTRICAL CONTRACTOR.

E300 SCALE: N.T.S.



TES

VFD

OVERCURRENT PROTECTION (TYPE OR AMPS/POLE)

THERMAL ELEMENT SWITCH

CONTROL PANEL

VARIABLE FREQUENCY DRIVE



TAG:	MDP-1 (BASE BID)	VOLTAGE:	208	Y/12	0, 3PH, 4W	NEUTRAL:	100%	
MTG:	SURFACE	BUS:	250A			GROUND:	EQUIPMENT	
RM:	UTILITY ROOM	MOCP:	250A			REMARKS:	42KAIC SCCR	
СКТ	DESCRIPTION	LOAD	СВ	PH	СВ	LOAD	DESCRIPTION	CKT
		VA	AMP		AMP	VA		
		7741		Α		9594		
1	LRP-1	7614	100/3	В	150/3	11054	PP-1	2
		4627		С		10394		
		0		Α		0		
3	SPARE	0	60/3	В	30/3	0	SPARE	4
		0		С		0		
		0		Α		0		
5	3-POLE SPACE	0		В		0	3-POLE SPACE	6
		0		С		0		

TOTAL VA PHASE A	17335	CONNECTED AMPS	155
TOTAL VA PHASE B	18668	CONNECTED VA	51024
TOTAL VA PHASE C	15021	DESIGN AMPS	171

TAG:	PP-1	VOLTAGE:	208	Y/120	0,3PH,4W	NEUTRAL:	100%	
MTG:	SURFACE	BUS:	150A			GROUND:	EQUIPMENT	
RM:	UTILITY ROOM	MOCP:	MLO			REMARKS:	10KAIC SCCR	
CKT	DESCRIPTION	LOAD	CB	PH	СВ	LOAD	DESCRIPTION	Ck
		VA	AMP		AMP	VA		
1		1667		Α	40/2	3000	IH-1 (ADD ALTERNATE: HEAT LAMP)	2
3	EH-1	1667	20/3	В	40/2	3000	IN-1 (ADD ALTERNATE. HEAT LAMP)	4
5		1667		С	40/2	2500	IH-2 (ADD ALTERNATE: HEAT LAMP)	6
7		1667		Α	40/2	2500	IH-2 (ADD ALTERNATE: HEAT LAMP)	8
9	ECH-1	1667	20/3	В	40/2	2500	III 2 (ADD ALTEDNATE, LICAT LAMB)	10
11		1667		С	40/2	2500	H-3 (ADD ALTERNATE: HEAT LAMP)	12
13				Α	30/2		SPARE	14
15	SPARE		30/3	В	30/2		SFAIL	10
17				С	20/1		SPARE	18
19				Α				20
21	SPARE		20/3	В	20/3		SPARE	2:
23				С				24
25	RESTROOM RECEPTS	360	20/1	Α	20/1		ELECTRIC SIGN	20
27	EWH-1	1500	20/1	В	20/1		ELECTRIC SIGN	28
29	OPEN AREA GFCI RECEPTS	360	20/1	С	20/1	300	TOILETS & FAUCETS	30
31	SPARE (FUTURE "NEXT BUS" SIGN CP)	400	20/1	Α	20/1		SPARE-FUTURE NEXT BUS SIGN #1	3:
33	UTILITY ROOM RECEPTS	720	20/1	В	20/1		SPARE-FUTURE NEXT BUS SIGN #2	3.
35	HAND DRYER	1200	20/1	С	20/1		SPARE-FUTURE NEXT BUS SIGN #3	30
37	SPARE		20/1	Α	20/1		SPARE-FUTURE NEXT BUS SIGN #4	38
39	SPARE		20/1	В	20/1		SPARE-FUTURE NEXT BUS SIGN #5	40
41	* SMOKE DETECTORS	200	20/1	С	20/1	0	SPARE	4

CONNECTED VA

DESIGN AMPS

10394

* PROVIDE LOCKOUT CIRCUIT BREAKER FOR FIRE DETECTION EQUIPMENT

TOTAL VA PHASE B

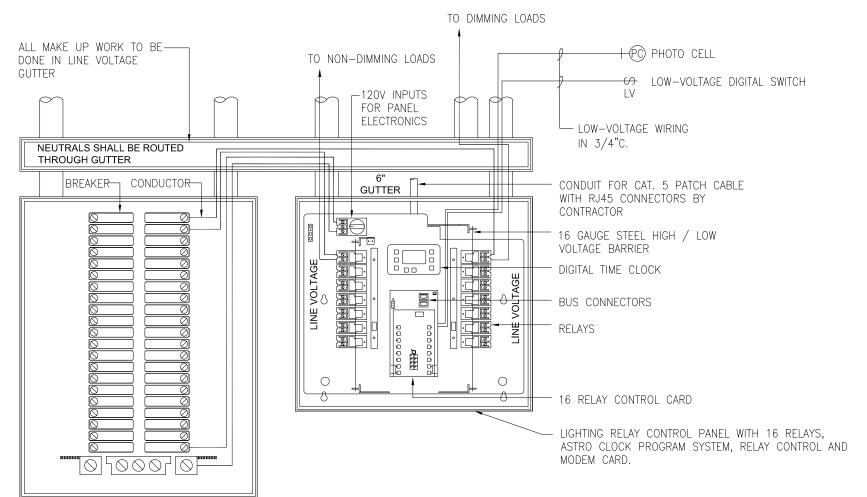
TOTAL VA PHASE C

TAG:	LRP-1 (BASE BID)	VOLTAGE:	208	Y/120),3PH,4W	NEUTRAL:	100%	
ИTG:	SURFACE	BUS:	100A			GROUND:	EQUIPMENT	
RM:	UTILITY ROOM	MOCP:	MLO			REMARKS:	10KAIC SCCR	
CKT	DESCRIPTION	LOAD	СВ	PH	CB	LOAD	DESCRIPTION	CKT
		VA	AMP		AMP	VA		
1	LIGHTING ZONE 1	1803	20/1	Α	20/1	1803	LIGHTING ZONE 2	2
3	LIGHTING ZONE 3	1803	20/1	В	20/1	1894	LIGHTING ZONE 4	4
5	LIGHTING ZONE 5	1624	20/1	С	20/1	600	ELECTRIC SIGN	6
7	LIGHTING ZONE 7	1894	20/1	Α	20/1	1803	LIGHTING ZONE 8	8
9	LIGHTING ZONE 9	1803	20/1	В	20/1	1714	LIGHTING ZONE 10	10
11	LIGHTING ZONE 11	1803	20/1	С	20/1	600	ELECTRIC SIGN	12
13	SPARE		20/1	Α			SPACE	14
15	SPARE		20/1	В			SPACE	16
17	SPARE		20/1	С			SPACE	18
19	SPARE		20/1	Α			SPACE	20
21	SPARE		20/1	В			SPACE	22
23	SPARE		20/1	С			SPACE	24
25	SPARE		20/1	Α			SPACE	26
27	SPARE		20/1	В			SPACE	28
29	SPARE		20/1	С			SPACE	30
31	SPARE		20/1	Α			SPACE	32
33	SPARE		20/1	В			SPACE	34
35	SPARE		20/1	С			SPACE	36
37	RESTROOM/UTILITY ROOM LTS, FANS	438	20/1	Α			SPACE	38
39	EM BATTERY PACK LIGHTS	200	20/1	В	20/1	200	LIGHTING CONTROLLER LCP-1	40
41	SPARE	0	20/1	С	20/1	0	SPARE	42

TOTAL VA PHASE A	7741	CONNECTED AMPS	64
TOTAL VA PHASE B	7614	CONNECTED VA	19982
TOTAL VA PHASE C	4627	DESIGN AMPS	42

* PROVIDE LOCKOUT CIRCUIT BREAKER FOR EMERGENCY LIGHTS AND EXIT SIGNS

PANELBOARD "LRP-1"



LIGHTING CONTROL RELAY PANEL "LCP-1"

A WELL PALANCED COMMUNITY

Village of Bridgeview 7500 S. Oketo Avenue Bridgeview, IL 60455



Arlington Heights, IL 60005

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Ma	rk Description	Date
\perp		
В	FINAL DESIGN	11.27.20

TOYOTA PARK
TRANSIT CENTER
PHASE II
7000 S. HARLEM AVE.
BRIDGEVIEW, IL 60455

Project No.: UW-P1306 / SA 17-091

Drawing Title

SCHEDULES AND RISER DIAGRAM

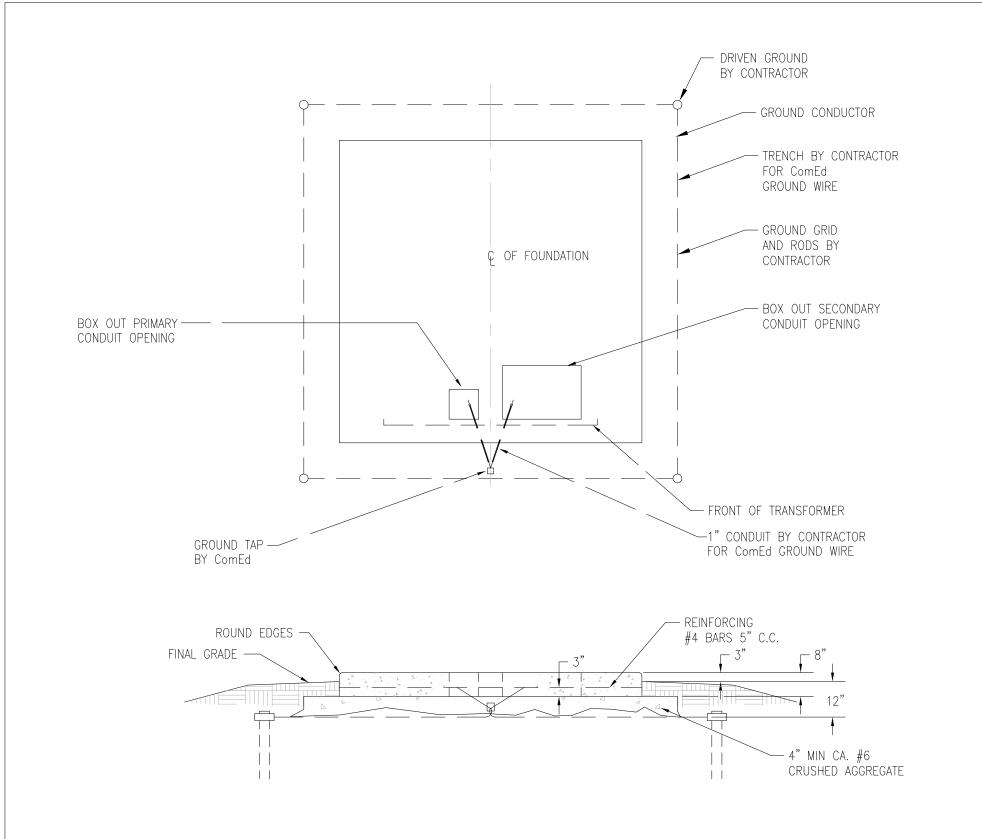
DRAWN BY:
MAM

CHECKED BY:
WJM

SCALE:
AS NOTED

PROJECT#:
P1306 / 17-091

E300



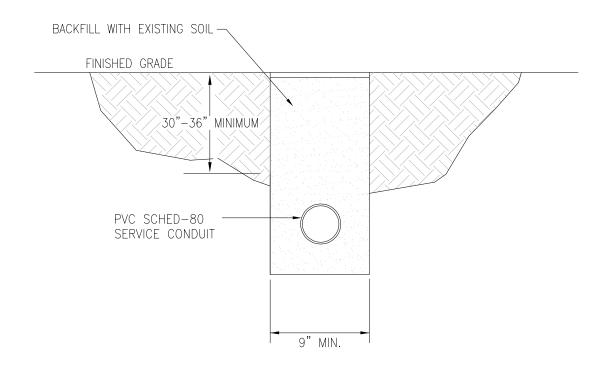
COMED TRANSFORMER PAD DETAIL

1. EXACT SIZE OF PAD AND BOX OUTS TO BE COORDINATED WITH ComEd.

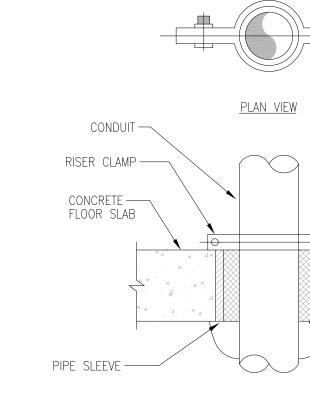
<u>NOTES:</u>

<u>NOTES:</u>

1. REFER TO DETAIL 4/S200 FOR PIPE SLEEVE DETAILS.



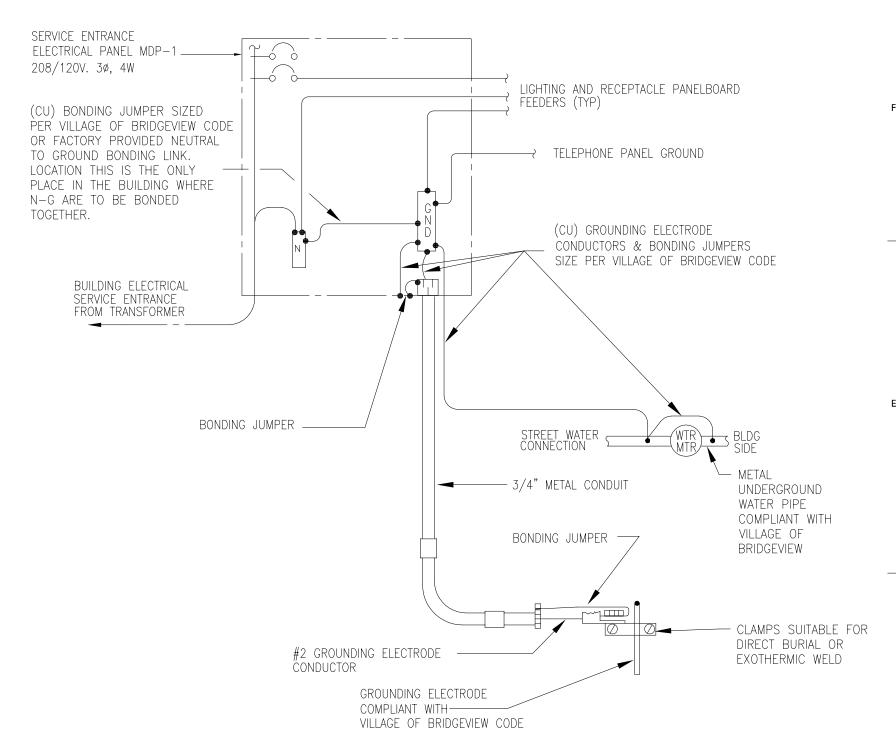
2 CONDUIT TRENCH DETAIL (TYPICAL)
SCALE: N.T.S.



CONDUIT INTERIOR FLOOR PENETRATION
SCALE: N.T.S.

NOTES:

1. FOR ALTERNATE DESIGN, GROUNDING ELECTRODE CONDUCTOR IS #1/0 IN 1" CONDUIT.



BUILDING GROUNDING DETAIL SCALE: N.T.S.



Village of Bridgeview 7500 S. Oketo Avenue Bridgeview, IL 60455



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	Date		
FINAL DESIGN	11.27.2017		
	FINAL DESIGN		

IOYOIA PARK TRANSIT CENTER

PHASE II 7000 S. HARLEM AVE. BRIDGEVIEW, IL 60455

Project No.: UW-P1306 / SA 17-091 Drawing Title

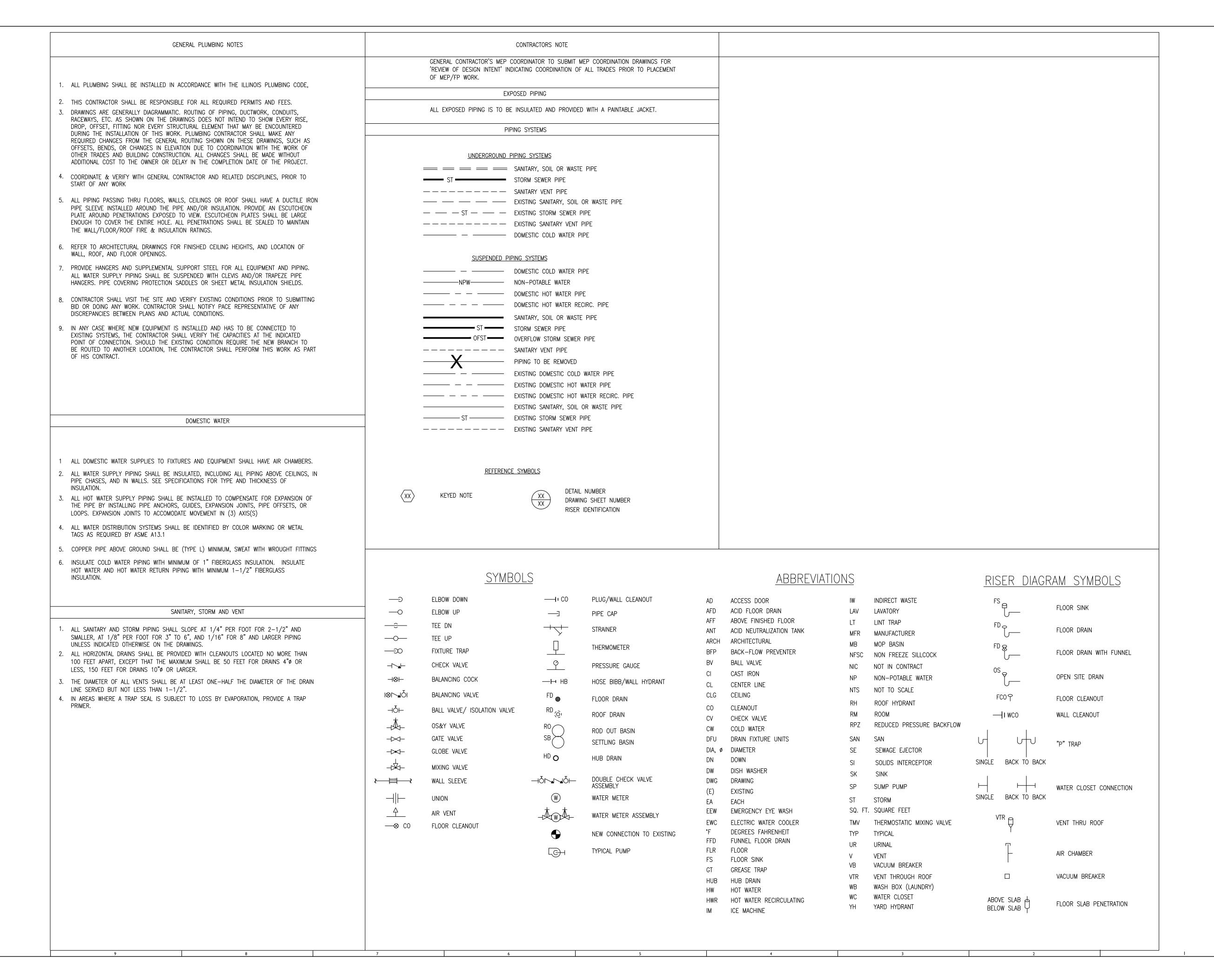
> **ELECTRICAL DETAILS**

DRAWN BY: MAM CHECKED BY: WJM SCALE: AS NOTED PROJECT#: P1306 / 17-091

WALLBOARD ASSEMBLY STEEL STUD-WRAP/STRIP -1/4" BEAD OF — BARRIER CAULK CONDUIT -STAINLESS STEEL — PLATE (EACH SIDE), WHERE EXPOSED.

GYPSUM

5 CONDUIT INTERIOR GYP. BOARD WALL PENETRATION SCALE: N.T.S.







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Mark	Description	Date
	FINAL DESIGN	11.27

Project Name
TOYOTA PARK
TRANSIT CENTER
PHASE II

7000 S. HARLEM AVE. BRIDGEVIEW, IL 60455

Project No.: UW-P1306 / SA 17-091

Drawing Title

PLUMBING NOTES, SYMBOLS, AND ABBREVIATIONS

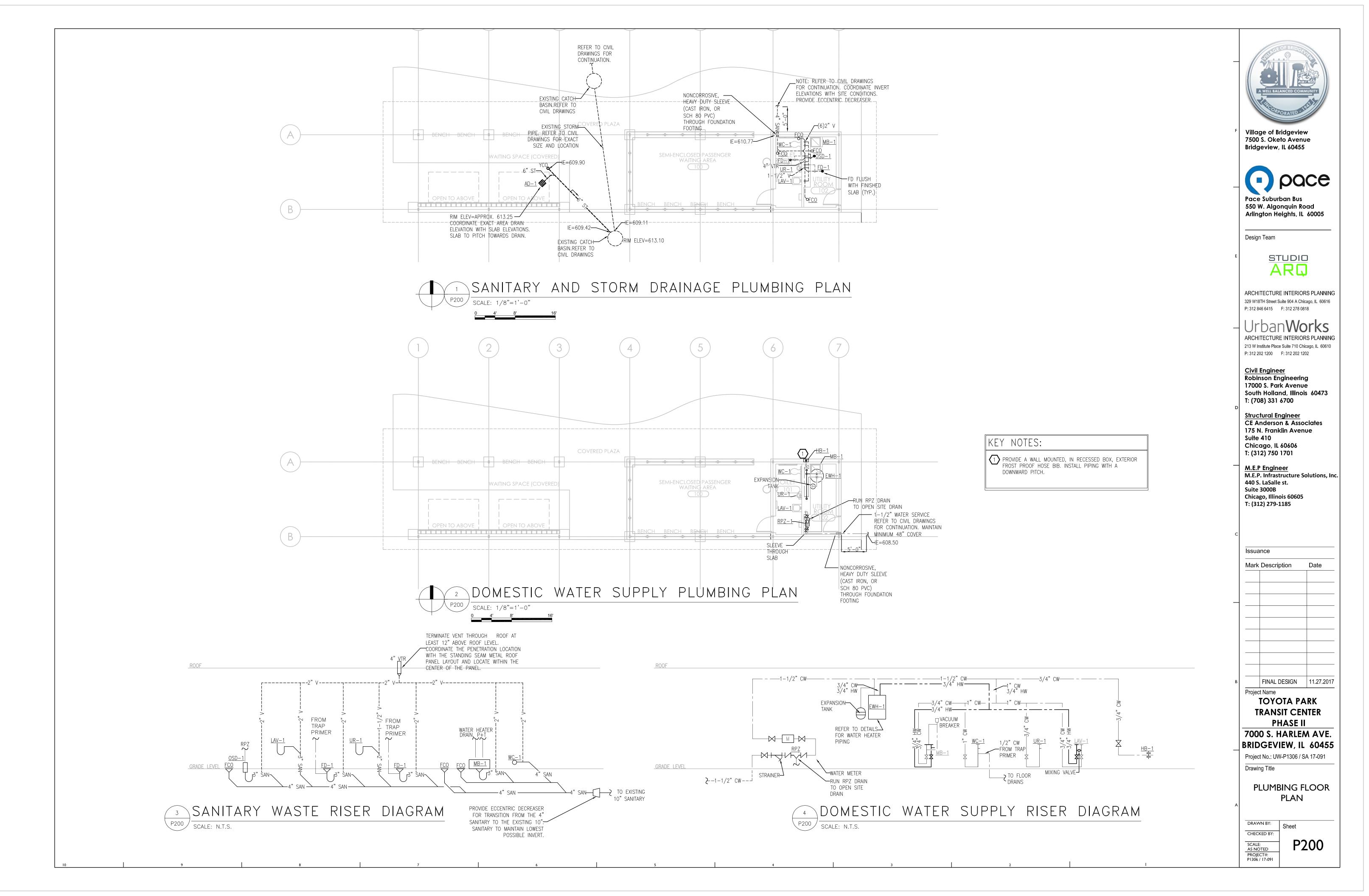
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SCALE:

SCALE:

AS NOTED PROJECT#:

PIO



PLUMBING FIXTURE SCHEDULE

TAG	FIXTURE TYPE	MOUNTING	ENERGY MANUF.	MANUE	MODEL	CED HOE	DECODIDATION	NOTES	CONNECTION			
NO.				MODEL	SERVICE	DESCRIPTION		CW	HW	SAN/ST	V	
WC-1	ADA WATER CLOSET	WALL	1.28/1.1 GPF	AMERICAN STANDARD	2856.128.020	TOILET	FLUSH VALVE TYPE WALL MOUNTED ADA WATER CLOSET. VITREOUS CHINA, SIPHON JET, ELONGATED BOWEL WITH 1-1/2" TOP SPUD. EXTRA HEAVY OPEN FRONT ANIT-MICROBIAL SEAT. STAINLESS STEEL OR PLATED STEEL POSTS AND NUTS. PROVIDE HARD WIRED SENSORY FLUSH VALVE (SIMILAR TO ZURN MODEL ZEMS6000-HET-IS AQUASENSE AV, 1.28 GPF). PROVIDE CARRIER SIMILAR TO JR SMITH MODEL 40M FOR SIPHON JET WATER CLOSET, ADJUSTABLE CARRIER WITH STUD SUPPORT EXTENSION. FINAL CARRIER STYLE SHALL BE COORDINATED WITH ACTUAL WATER CLOSET TO BE INSTALLED AND WITH CARRIER MANUFACTURER. PROVIDE WITH ZURN EXPOSED P6000-TPO TRAP PRIMER ASSEMBLY.	_	1"	-	4"	2"
UR-1	URINAL	WALL	0.125 GPF	ZURN	Z5755-U	TOILET	FLUSH VALVE TYPE WALL MOUNTED URINAL WITH HARD WIRED SENSORY FLUSH VALVE (ZURN ECOVANTAGE ULTRA LOW FLOW, 0.125 GPF). VITREOUS CHINA, WASHOUT, ELONGATED RIM WITH 3/4" TOP SPUD. PROVIDE SUPPORT CARRIER WITH BEARING PLATES		3/4"	-	2"	2"
LAV-1	LAVATORY	WALL	0.5 GPM	AMERICAN STANDARD	0356.028.020	TOILET	WALL MOUNTED LAVATORY. WHITE VITREOUS CHINA WITH CENTERED SINGLE FAUCET HOLE. PROVIDE WITH HARD WIRED SENSORY LOW FLOW FAUCET (SLOAN ETF OR EQUAL, 0.5 GPM).	-	1/2"	1/2"	2"	1 1/2"
TMV-1	THERMOSTATIC MIXING VALVE	UNDER SINK	0.5 GPM	WATTS	LFUSG-B	LAVATORIES	BRONZE/BRASS ROUGH FINISH THERMOSTATIC MIXING VALVE, 0.5 GPM FLOW TO LAVATORY. SET AT 110°F MAX WATER TEMPERATURE.	_	1/2"	1/2"	_	-
MB-1	MOP BASIN	FLOOR	4.0 GPM	FIAT	TSB	BUILDING	24"X24"X12" PRECAST TERRAZZO, MOP BASIN WITH STAINLESS STEEL DRAIN AND REMOVABLE STRAINER. STAINLESS STEEL CAP ON ALL EDGES. PROVIDE TWO HANDLE, CHROME PLATED, BRASS, MIXING FAUCET (CHICAGO FAUCET 897 OR EQUAL).	_	3/4"	3/4"	3"	2"
FD-1	FLOOR DRAIN	FLUSH WITH FLOOR	-	-	-	FLOOR DRAIN	GENERAL USE FLOOR DRAIN, CAST IRON BODY AND HEAVY DUTY NICKEL BRONZE STRAINER, ADJUSTABLE TOP, 8" SQUARE WITH 3" OR 4" BOTTOM OUTLET (REFER TO FLOOR PLANS) AND FLASHING COLLAR AND FITTINGS FOR TRAP PRIMER. PROVIDE AND INSTALL TRAP PRIMER WITH ALL FLOOR DRAINS.	-	-	-	3"	2"
OSD-1	OPEN SITE DRAIN	FLOOR	_	-	_	RPZ	EXTEND WASTE PIPE ABOVE FLOOR LEVEL.	_	-	_	3"	2"
AD-1	AREA DRAIN	FLUSH WITH FLOOR	-	ZURN	Z-348	AREA DRAIN	GENERAL USE AREA DRAIN WITH CAST IRON BODY, STAINLESS STEEL MESH SEDIMENT SCREEN AND 12"X12" HEEL PROOF GRATE.	-	-	_	6"	_
FCO-1	FLOOR CLEANOUT	FLOOR	-	ZURN	Z1400	GENERAL USE	ADJUSTABLE CAST IRON HOUSING, NICKEL BRONZE TOP, TAPERED THREAD PLUG. FINISHING SHALL MATCH BE COORDINATED WITH FLOOR TYPE.	-	-	_	4"	_
YC0-1	YARD CLEANOUT	OUTSIDE GRADE	-	ZURN	Z1474	SANITARY WASTE STORM DRAIN	ROUND DURA COATED CAST IRON, HEAVY DUTY CAST IRON COVER.	-	_	-	FLR PLANS	-
HB-1	WALL HYDRANT	RECESSED EXTERIOR WALL	-	ZURN	1300	EXTERIOR SPACES	ECOLOTROL WALL HYDRANT ENCASED, NON FREEZE, ANTI-SIPHON, AUTOMATIC DRAINING.	-	3/4"	-	-	-
RPZ-1	REDUCED PRESSURE BACKFLOW PREVENTOR	MAIN DOMESTIC WATER PIPE 60" MAX AFF	-	WATTS	LF909	MAIN DOMESTIC WATER PIPE	FDA APPROVED EPOXY COATED CAST IRON CONSTRUCTION, NON-CORROSIVE INTERNAL PARTS, STAINLESS STEEL SPRINGS, RATED FOR 175 PSI, 13 PSI MAXIMUM PRESSURE DROP.	_	REFER TO FLR PLANS	_	-	-

- 1. COORDINATE TRIM LENGTH WITH SINKS' AND LAVS' WIDTH BEFORE PURCHASE.
- 2. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT OF PLUMBING FIXTURES. 3. INSULATE TRAPS AND WATER SUPPLY PIPES OF ADA LAVS FOR ADA COMPLIANCE.
- 4. PROVIDE THERMOSTATIC MIXING VALVES (WATTS USB-B OR EQUAL) FOR LAVATORY. SET AT 115°F WATER TEMPERATURE MAXIMUM.
- 5. ALL NEW PLUMBING CONNECTIONS SHALL COMPLY WITH THE VILLAGE OF BRIDGEVIEW BUILDING ADOPTED CODES AND STANDARDS.
- 6. PROVIDE POWER CONVERTOR FOR HARD WIRED SENSORY FLUSH VALVES AND FAUCETS

DOMESTIC WATER HEATER SCHEDULE (ELECTRIC)										
ITEM NO.	LOCATION	DESCRIPTION	STORAGE GALLONS	RECOVERY GPH AT 80° DELTA T	WATER TEMP. IN	WATER TEMP. OUT	ELE KW	CTRICAL V/PH/HZ	MANUFACTURER/MODEL OR EQUAL	REMARKS
EWH-1	SEE DRAWINGS	ELECTRIC WATER HEATER	6	8	40	120	2	120/1	RHEEM XE06P06PU20U0	SEE NOTES

- 1. PROVIDE DRAIN PAN, EXPANSION TANK AND VACUUM BREAKER.
- 2. PIPE DRAIN PAN AND P+T RELIEF VALVE TO MOP SINK
- 3. DISCONNECT SWITCH BY ELECTRICAL CONTRACTOR.
- 4. MOUNT WATER HEATER UP HIGH ON A SUPPORTING PLATFORM

PLUMBING MATERIAL LIST							
PIPE	SIZE	MATERIAL	INSULATION				
SANITARY WASTE- UNDERGROUND	ALL	HUB AND SPIGOT CAST IRON	-				
SANITARY WASTE-SUSPENDED	2-1/2" AND SMALLER	PVC SCH40, ASTM D 2665	-				
SANITARY WASTE-SUSPENDED	3" AND LARGER	HUB AND SPIGOT CAST IRON	-				
STORM- UNDERGROUND	ALL	HUB AND SPIGOT CAST IRON	-				
STORM- SUSPENDED	ALL	HUB AND SPIGOT CAST IRON	_				
UNDERGROUND VENT	ALL	HUB AND SPIGOT CAST IRON	_				
VENT-SUSPENDED	2-1/2" AND SMALLER	PVC SCH40, ASTM D 2665	-				
VENT-SUSPENDED	3" AND LARGER	PVC SCH40, ASTM D 2665	_				
COLD/HOT WATER-SUSPENDED	4" AND SMALLER	TYPE L HARD COPPER	1" FIBER GLASS INSULATION W/ FACTORY APPLIED VAPOR BARRIER				

DOMESTIC COLD WATER CALCS.										
LUMBING FIXTURE	NUMBER OF FIXTURES	WSFU/FIXTURE	TOTAL WSFU	REMARKS						
ATER CLOSET	1	10	10	FLUSH VALVE						
RINAL	1	10	10	FLUSH VALVE						
AVATORY	1	2	2							
ERVICE SINK	1	3	3							
REEZE PROOF HYDRANT	1	1	1							
	TOTAL BUILDING WSFU		26							
	BUILDING CW DEMAND (GPM	1)	37							



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M	lark Description	Date
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В	FINAL DESIGN	11.27.20
P	roject Name	,

IOYOIA PARK TRANSIT CENTER PHASE II

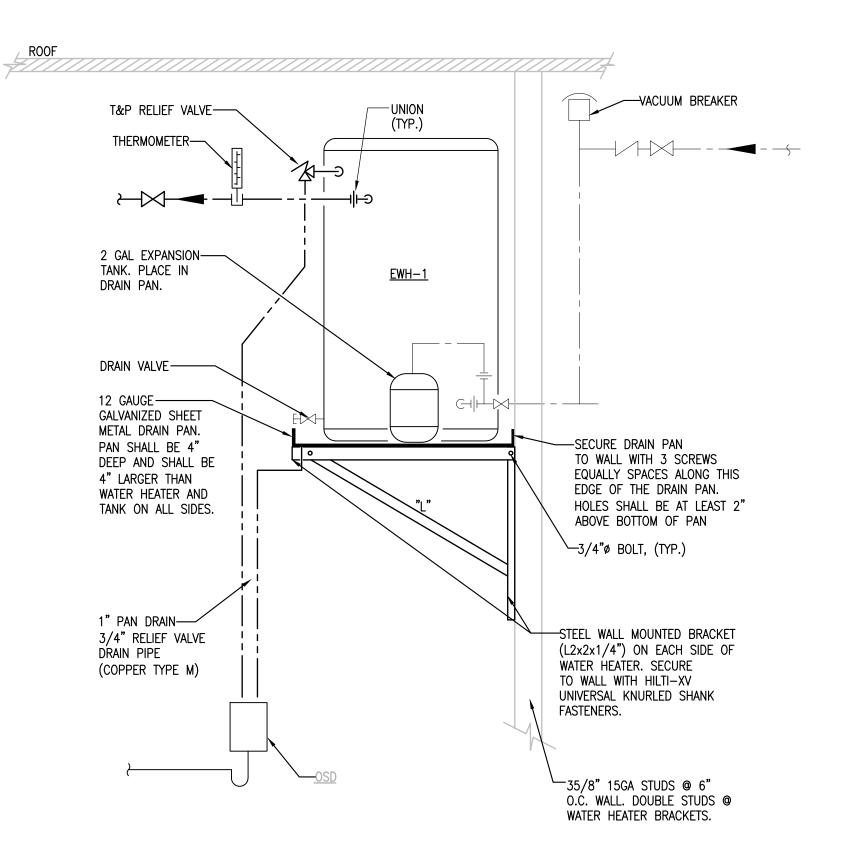
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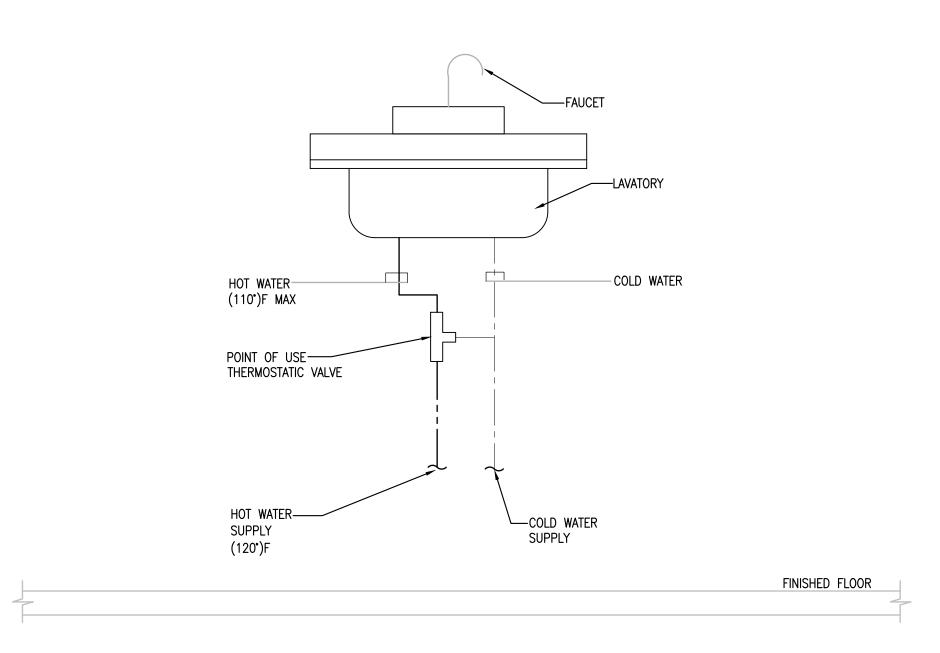
Project No.: UW-P1306 / SA 17-091 Drawing Title

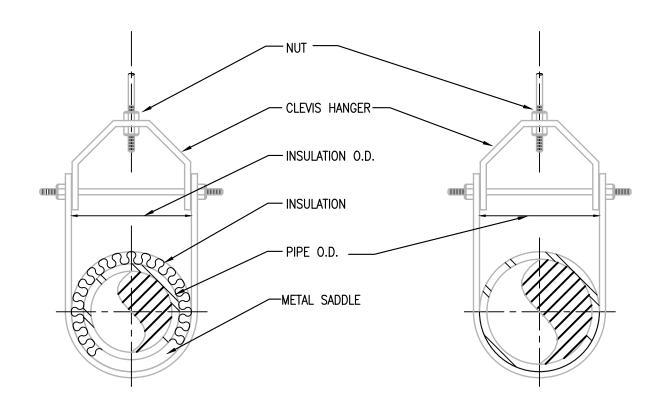
PLUMBING

SCHEDULES

CHECKED BY: SCALE: AS NOTED PROJECT#: P1306 / 17-091



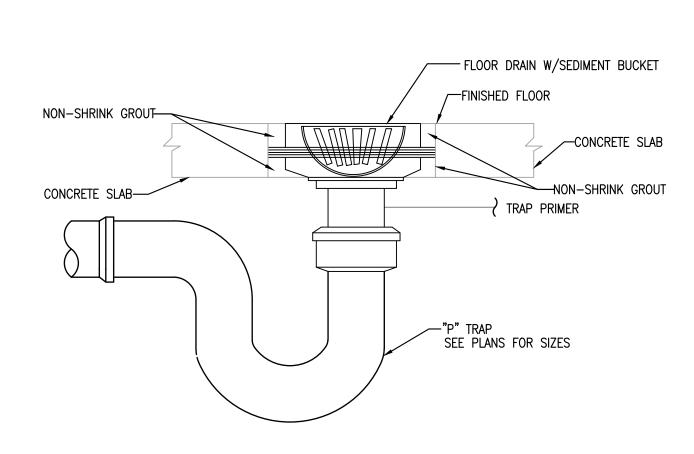




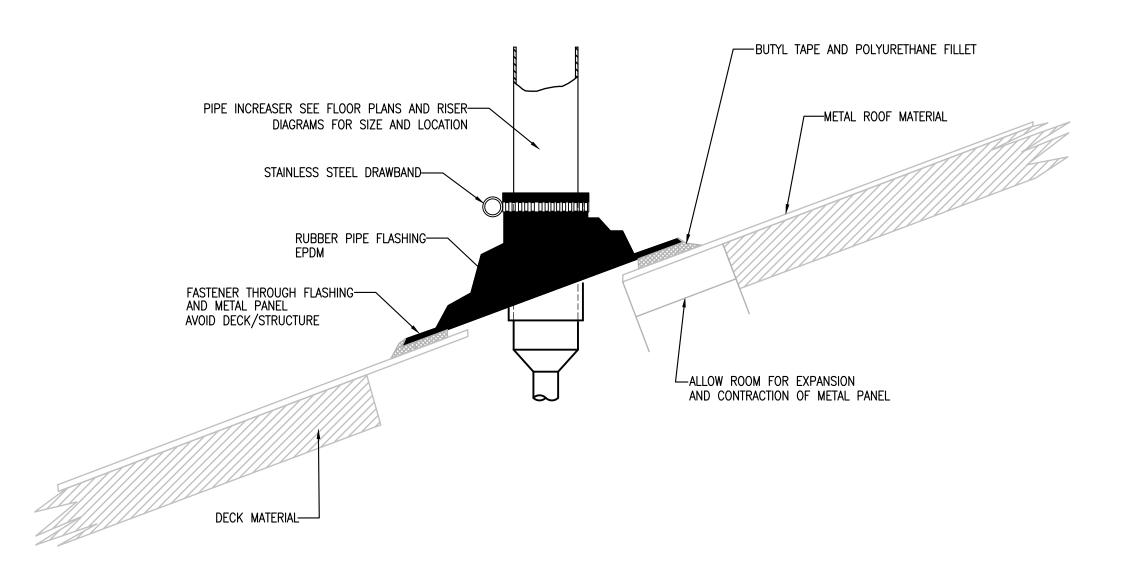
PIPE HANGERS DETAIL P400 SCALE NO SCALE

2 LAVATORY WITH THERMOSTATIC VALVE DETAIL P409 SCALE NO SCALE

1 ELEVATED ELECTRIC WATER HEATER DETAIL P409 SCALE NO SCALE











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Issuance Mark Description FINAL DESIGN 11.27.2017 Project Name

TOYOTA PARK TRANSIT CENTER **PHASE II**

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Project No.: UW-P1306 / SA 17-091 Drawing Title

PLUMBING DETAILS

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P400