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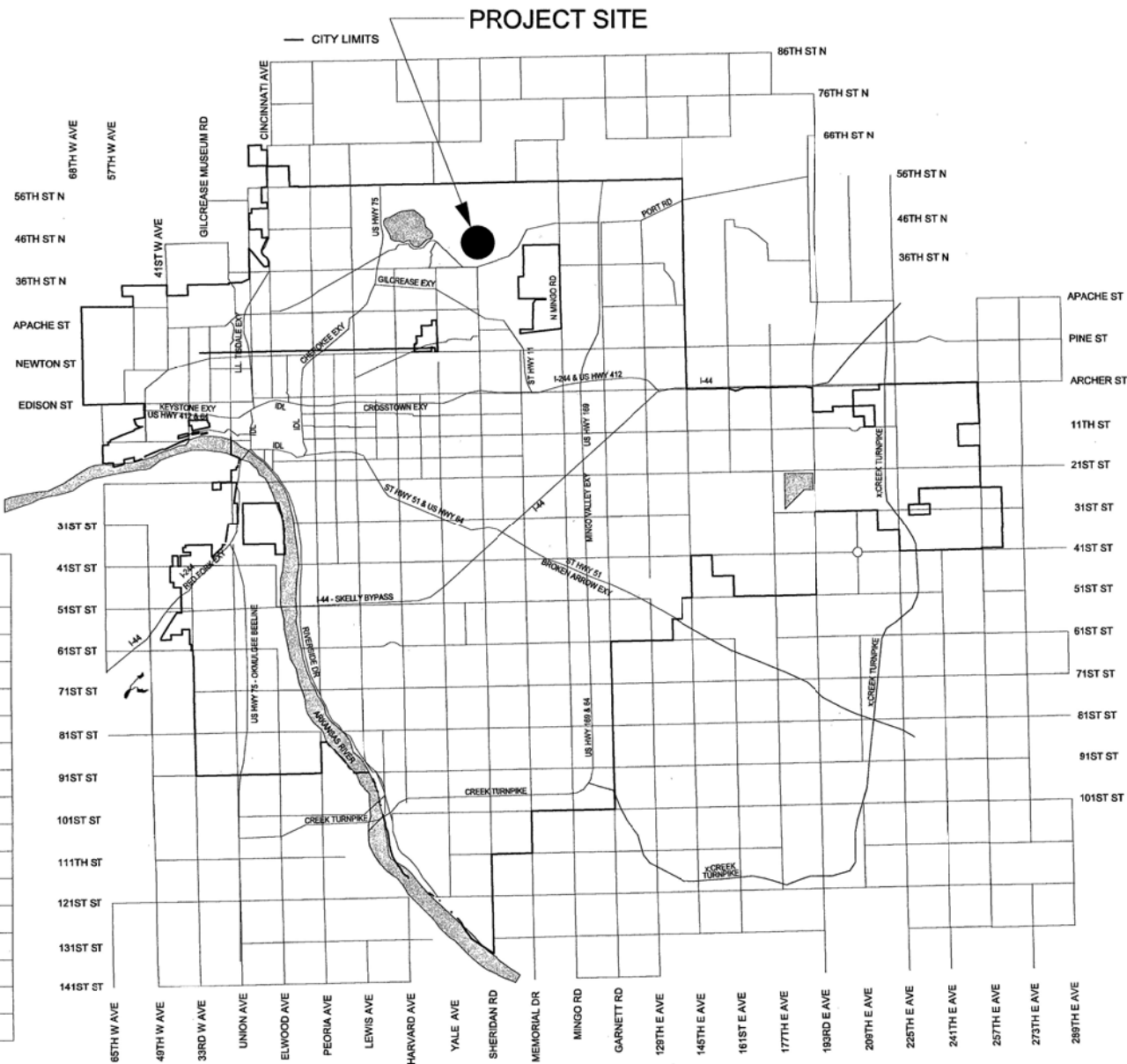
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CONSTRUCTION PLANS FOR
TULSA ZOO ROOF
REPLACEMENT

6421 E 36th St N, Tulsa, OK 74115

PROJECT NO. CP24-21
IMPROVE OUR TULSA 3

CITY OF TULSA, OKLAHOMA
PARKS, CULTURE & RECREATION DEPARTMENT



UTILITY COORDINATION		
	NUMBER	NOTIFIED
CITY ARCHITECTURAL & BUILDING SERVICES	918-596-9603	
WATER DESIGN	918-596-2568	
WASTEWATER DESIGN	918-596-6999	
TRANSPORTATION DESIGN	918-596-9876	
TRAFFIC ENGINEERING DESIGN	918-596-9876	
STORMWATER DESIGN	918-596-2567	
CALL OKIE	1-800-522-6543	
OKLAHOMA NATURAL GAS CO.	1-800-664-5463	
COX COMMUNICATIONS	918-286-4500	
PUBLIC SERVICE CO. / AEP	833-776-7697	
AT&T	888-944-0447	
BUILDING MAINTENANCE & OPERATIONS	918-596-9389	
ZOO FACILITIES AND CONSTRUCTION	918-669-6227	

ARCHITECT
GH2
ARCHITECTS
21 NORTH GREENWOOD AVE, SUITE 200
TULSA, OK 74120
(918) 587-6158
WWW.GH2.COM

CITY ARCHITECTURAL BUILDING SERVICES

APPROVED BY

for DIRECTOR OF PARKS AND RECREATION
DATE 10-6-26

for CITY ENGINEER
DATE 09.29.26

ABBREVIATIONS

EA	EACH	ALLOW.	OWNER ALLOWANCE
LF	LINEAR FEET	SYS.	SYSTEM
SF	SQUARE FEET	ARD	ABOVE ROOF DECK
SQ	SQUARE (600 SQUARE FEET)	MIN.	MINIMUM
TYP	TYPICAL	MAX.	MAXIMUM
F.V.	FIELD VERIFY	AFF	ABOVE FINISH FLOOR
SIM.	SIMILAR		

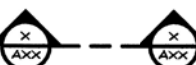
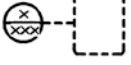
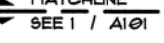
APPLICABLE BUILDING CODES

IBC	2018 INTERNATIONAL BUILDING CODE
IEBC	2018 INTERNATIONAL EXISTING BUILDING CODE
NEC	NATIONAL ELECTRICAL CODE
IPC	2018 INTERNATIONAL PLUMBING CODE
IMC	2018 INTERNATIONAL MECHANICAL CODE
IFGC	2018 INTERNATIONAL FUEL GAS CODE
SMACNA	2012 SHEET METAL STANDARDS - 11TH EDITION

GENERAL DEFINITIONS

ALIGN	TO ACCURATELY LOCATE FACE BASED ON ADJACENT ITEMS OR CONSTRUCTION.
CLEAR	MINIMUM DIMENSION BETWEEN FINISHED CONDITION, SHALL BE TREATED AS A PRIORITY TO HOLD BEFORE OTHER DIMENSIONS.
MAXIMUM	THE CONDITION MAY NOT VARY TO A DIMENSION GREATER THAN THAT SHOWN WITHOUT THE APPROVAL OF THE ARCHITECT.
MINIMUM	THE CONDITION MAY NOT VARY TO A DIMENSION SMALLER THAN THAT SHOWN WITHOUT THE APPROVAL OF THE ARCHITECT.
SIMILAR	NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES. DETAILS AND NOTES ARE TYPICAL/SIMILAR DETAILS AND NOTES APPLY IN SIMILAR CONDITIONS. THE WORD "SIMILAR" MEANS THAT ITEMS IN EACH CASE ARE TO BE SEPARATELY WORKED OUT TO SUIT CONDITIONS IN A MANNER LIKE OR SIMILAR TO THE EXAMPLE REFERRED TO AND DOES NOT MEAN IDENTICAL.
TYPICAL	THE CONDITION APPLIES TO THE SAME CONDITIONS THROUGHOUT UNLESS NOTED OTHERWISE.
SALVAGE	CAREFULLY REMOVE, PACKAGE, AND/OR DISMANTLE, STORE, AND PRETECT FOR REINSTALLATION.

SYMBOLS LEGEND

VIEW TITLE		TITLE 1/8" = 1'-0"
VIEW TITLE WITH REFERENCE		TITLE 1/8" = 1'-0" REF FROM: R / R101
BUILDING SECTION AND REFERENCE		
BUILDING ELEVATION		
WALL SECTION SYMBOL		
ENLARGED FLOOR PLAN OR PLAN DETAIL REFERENCE		
MATCHLINE & REFERENCES		MATCHLINE SEE 1 / A101
INTERIOR ELEVATION		
ROOM NAME ROOM NUMBER		ROOM NAME 101
AREA NAME AREA SQUARE FEET AREA OCCUPANCY		AREA NAME 150 SF 150
LEVEL NAME RELATIVE ELEVATION		NAME ELEVATION
PARTITION TYPE SYMBOL		
DOOR TAG & RATING		101 20
WINDOW / STOREFRONT TAG		
MATERIAL TAG		P
EQUIPMENT TAG		II TYP.
GRID BUBBLE		A
PLAN NORTH ARROW		NORTH
GRAPHIC SCALE		0' 2' 4' 8' 16'
ELEVATION OR HEIGHT SYMBOL		
FLOORING TRANSITION		
CENTERLINE		
OPEN TO STRUCTURE		OTS
ALIGN FINISHES		ALIGN
REVISION EXTENTS & TAG		

GENERAL PROJECT NOTES

- GENERAL NOTES ARE TYPICAL FOR AREAS OF WORK.
- REFER TO COMPLETE SET OF CONSTRUCTION DOCUMENTS FOR ALL PROJECT NOTES.
- THE CONTRACT DOCUMENTS IN THEIR ENTIRETY ARE THE RESPONSIBILITY OF ALL TRADES. WHERE REQUIREMENTS ARE SHOWN IN ONE SECTION OF THE SPECIFICATIONS OR DRAWINGS BUT NOT ANOTHER, THE CONTRACTOR IS NOT RELIEVED FROM PROVIDING COMPLETELY FINISHED, COORDINATED AND PROPERLY FUNCTIONING SYSTEMS.
- ANY MISCELLANEOUS ITEMS OR MATERIALS NOT SPECIFICALLY NOTED, BUT REQUIRED FOR THE PROPER EXECUTION, INSTALLATION, OR PERFORMANCE OF THE WORK, SHALL BE PROVIDED BY THE CONTRACTOR.
- CONTRACTOR IS RESPONSIBLE FOR THE LAYOUT AND COORDINATION OF DIMENSIONS IN THE FIELD.
- THE PRESENCE OF THE ARCHITECT OR AN ARCHITECT'S REPRESENTATIVE ON THE JOB SITE DOES NOT IMPLY CONCURRENCE OR APPROVAL OF THE WORK. THE CONTRACTOR SHALL CALL SPECIFIC ITEMS TO THE ATTENTION OF THE ARCHITECT IF THE CONTRACTOR WISHES TO OBTAIN THE ARCHITECT'S REVIEW.
- IF DISCREPANCIES OCCUR BETWEEN DRAWINGS OR BETWEEN THE DRAWINGS AND SPECIFICATIONS, NOTIFY THE ARCHITECT FOR RESOLUTION PRIOR TO PROCEEDING.
- VERIFY EQUIPMENT ROUGH-IN DIMENSIONS WITH MANUFACTURER FOR EQUIPMENT THAT IS EXISTING, REUSED OR FURNISHED BY OWNER.
- PROVIDE ELECTROLYTIC PROTECTION / ISOLATION BETWEEN ALL DISSIMILAR METALS, WHERE THEY OCCUR TO PREVENT ELECTROLYTIC REACTION AND / OR CORROSION.
- PROVIDE ADEQUATE BLOCKING, BACKING OR STRUCTURAL SUPPORT AS REQUIRED TO PROPERLY INSTALL ALL MOUNTED ASSEMBLIES, INCLUDING ALL ATTACHED EQUIPMENT (OWNER AND CONTRACTOR FURNISHED ITEMS), PLUMBING FIXTURES, MILLWORK, AND CASEWORK.
- PROVIDE ALL TEMPORARY BRACING AND SHORING AS REQUIRED FOR CONTRACT WORK.
- PROTECT ALL NEWLY INSTALLED MATERIALS AND FINISHES UNTIL WORK IS FORMALLY ACCEPTED BY THE ARCHITECT OR THE OWNER'S REPRESENTATIVE AND TRANSFERRED TO THE OWNER.
- THE CONSTRUCTION SITE IS TO BE KEPT CLEAN AND FREE OF DEBRIS. THE CONTRACTOR IS RESPONSIBLE FOR ALL PHASING, SECURING, HANDLING, TRANSPORTING AND DISPOSING OF DEBRIS.
- COORDINATE STAGING AND STORAGE AREAS, AND LOCATIONS OF TEMPORARY FACILITIES WITH OWNER.
- COORDINATE LOCATIONS OF CONSTRUCTION DUMPSTER ON SITE AND ACCESS TO BUILDING WITH OWNER.
- PROVIDE DUST PROTECTION OF THE AREA OUTSIDE OF CONSTRUCTION AND DEMOLITION LIMITS.
- PROVIDE TEMPORARY BARRICADES AND OTHER PROTECTION AS REQUIRED WITHIN EACH BUILDING. COORDINATE LOCATIONS OF TEMPORARY BARRIERS WITH OWNER PRIOR TO PLACEMENT.
- LOCATION OF EXISTING UTILITIES SHOWN ARE APPROXIMATE. UTILITIES DISTURBED BY THE CONTRACTOR SHALL BE THE CONTRACTOR'S RESPONSIBILITY FOR REPAIR ACCORDING TO THE OWNER'S SPECIFICATIONS AND REQUIREMENTS AT NO COST TO THE OWNER.
- SUBMIT A REQUEST TO INTERRUPT ANY SERVICES TO OWNER, IN WRITING, 36 HOURS IN ADVANCE OF PROPOSED INTERRUPTION. REQUEST SHALL STATE REASON, DATE, EXACT TIME OF, AND APPROXIMATE DURATION OF SUCH INTERRUPTION.
- VERIFY THE EXISTENCE AND LOCATION OF UTILITIES PRIOR TO STARTING WORK.
- MAINTAIN UTILITY SERVICES AND PROTECT THEM AGAINST DAMAGE DURING CONSTRUCTION OPERATIONS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED TO THE UTILITIES - KNOWN AND UNKNOWN (OVERHEAD AND BURIED) WHICH MAY OCCUR DUE TO THEIR ACTION OR LACK OF ACTION ON THE PROJECT SITE DURING CONSTRUCTION OPERATIONS. CONTRACTOR SHALL SEEK ASSISTANCE OF LOCAL UTILITIES IN LOCATING THE UTILITIES PRIOR TO PERFORMING OPERATIONS IN ANY AREA.
- CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE OWNER'S SECURITY REQUIREMENTS FOR THE AREA OF CONSTRUCTION.
- INSTALL ALL NEW MATERIALS AND EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS.
- ALL NEW BUILDING MATERIALS AND PRODUCTS SHALL NOT CONTAIN LEAD, CADMIUM, OR ASBESTOS.
- KEYNOTES WHERE INDICATED ARE FOR REFERENCE ONLY AND MAY NOT BE AT ALL LOCATIONS THAT CORRESPOND TO THAT NOTE. CONTRACTOR IS RESPONSIBLE FOR VERIFYING QUANTITY OF MATERIALS REQUIRED FOR DEMOLITION AND NEW CONSTRUCTION.
- REPAIR ANY DAMAGE DUE TO CONSTRUCTION TRAFFIC OR OPERATIONS.
A. RETURN ALL DISTURBED LANDSCAPE AREAS DUE TO CONSTRUCTION ACTIVITY TO ORIGINAL CONDITION.
B. FINAL GRADE AND SOO AREAS DISTURBED BY CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY APPROVALS, PERMITS AND INSPECTION PAYING REQUIRED FEES AND POSTING ANY REQUIRED BONDS, PRIOR TO BEGINNING ANY DEMOLITION OR CONSTRUCTION.
- PROVIDE A TEMPORARY 6 FEET HIGH CHAIN LINK FENCE AS SHOWN ON SITE PLAN ALONG THE PERIMETER OF THE CONSTRUCTION SITE DURING WORK, COORDINATE LOCATION AND EXTENTS WITH ZOO STAFF ON SITE.
- FINAL COLOR SELECTIONS TO BE MADE BY OWNER / ARCHITECT UPON RECEIPT OF ALL MATERIAL SUBMITTALS. REVIEW CANNOT BEGIN UNTIL ALL MATERIALS HAVE BEEN RECEIVED.
- NOTIFY ARCHITECT OF ANY DISCREPANCIES BETWEEN THE EXISTING CONDITIONS AND THE DRAWINGS. IN THE EVENT OF CONFLICT BETWEEN THE DRAWINGS OR BETWEEN A DRAWING AND SPECIFICATION ITEM, THE DRAWING OR SPECIFICATION REQUIRING THE GREATER EXTENT, LARGER NUMBER, OR HIGHER QUALITY SHALL GOVERN. NOTIFY ARCHITECT OF ANY DISCREPANCIES IN WRITING FOR RESOLUTION BEFORE PROCEEDING.
- COORDINATE ENVIRONMENTAL REMEDIATION REQUIREMENTS AND PROCEDURES WITH OWNER AND OWNER'S ENVIRONMENTAL CONSULTANT IF AND WHEN SITE CONDITIONS ARE PRESENT THAT REQUIRE ENVIRONMENTAL REMEDIATION. ARCHITECT'S CONSTRUCTION DOCUMENTS ARE NOT INTENDED TO PROVIDE REMEDIATION OR SATISFY REMEDIATION REQUIREMENTS AND SHALL NOT BE USED AS SUCH.
- CONTRACTOR SHALL MAINTAIN A CURRENT RECORD SET OF ALL CONTRACT DOCUMENTS AND RETURNED SUBMITTALS ON SITE FOR THE DURATION OF THE PROJECT. ANY CHANGES MADE TO THE CONTRACT DOCUMENTS SHALL BE PROMPTLY INCORPORATED INTO THE CURRENT RECORD SET.
- WHEN IN DOUBT, SUBMIT A REQUEST FOR INFORMATION (RFI) TO THE ARCHITECT IN WRITING FOR ALL QUESTIONS, INCLUDING BUT NOT LIMITED TO CLARIFICATIONS, INTERPRETATIONS, OR WHERE FIELD CONDITIONS MAY IMPACT DESIGN INTENT, PRIOR TO PROCEEDING WITH THE WORK.
- COORDINATE SEQUENCING OF WORK WITH ZOO STAFF TO MAINTAIN EXHIBIT ENCLOSURE SECURITY AND INTEGRITY.
- PROVIDE PROTECTION TO EXHIBITS AND FLOORING BELOW ROOF AREA DURING DEMOLITION AND CONSTRUCTION ACTIVITIES.

GENERAL ROOF DRAINAGE NOTES

- SIZING BASIS OF DESIGN:**
- RAINFALL INTENSITY:
PRIMARY: 4.0 IN/HR PER NOAA VIA ASCE 7 HAZARD TOOL
OVERFLOW: 10.2 IN/HR PER OKLAHOMA AMENDMENT
- PIPE SLOPE: 1/2" PER FOOT
- HYDRAULIC HEAD: 2" MAXIMUM
- MATERIAL AND FIXTURE SPECIFICATIONS:**
- STORM DRAIN PIPING:
SCHEDULE 40 PVC WITH DRAINAGE PATTERN FITTINGS AND SOLVENT-CEMENTED JOINTS PER ASTM D2665 AND D2855.
SLOPE AT 1/2" PER FOOT, OR AS NOTED.
- COMBINATION PRIMARY AND OVERFLOW ROOF DRAIN:
ZURN Z163-EA WITH ADJUSTABLE EXTENSION (OR EQUAL).
COMBINATION PRIMARY AND OVERFLOW ROOF DRAIN WITH 15" CAST IRON BODIES, DECK PLATE, AND FLASHING CLAMPS. OVERFLOW DRAIN PROVIDED WITH 3" EXTERIOR WATER DAM. PROVIDE WITH CAST IRON DOME. REFER TO PLANS FOR OUTLET SIZE. PROVIDE WITH EXTENSION, UNDERDECK CLAMP, AND SUMP RECEIVER AS REQUIRED FOR INSTALLATION.
- PRIMARY SINGLE ROOF DRAIN:
ZURN Z163-EA WITH ADJUSTABLE EXTENSION (OR EQUAL).
OVERFLOW ROOF DRAIN WITH 15" CAST IRON BODY, FLASHING CLAMP, AND 2" EXTERIOR WATER DAM. PROVIDE WITH CAST IRON DOME. REFER TO PLANS FOR OUTLET SIZE. PROVIDE WITH EXTENSION, UNDERDECK CLAMP, AND SUMP RECEIVER AS REQUIRED FOR INSTALLATION.



GH2 ARCHITECTS

21 NORTH GREENWOOD AVE - SUITE 200, TULSA, OKLAHOMA

TULSA ZOO ROOF REPLACEMENT

6421 E 36th St N, Tulsa, OK 74115

PROJECT NUMBER: CP24-21



CITY ARCHITECTURAL BUILDING SERVICES

DRAWN	B. RAMOS	PROJ. MGR.		9/26
DESIGNED		CDS MGR.		
SURVEY		FIELD MGR.		9/26
		CITY ENG.		9/26

ISSUE BLOCK BY: DATE:

SHEET NAME:

PROJECT INFORMATION

SHEET NO:
G001

SHEET 2 OF 20

UNIT PRICE SCHEDULE, TULSA ZOO ROOF REPLACEMENT, 6421 E. 36TH ST N, TULSA OK 74115, CP24-21

PAY SCHEDULE IS FOR INFORMATION ONLY. CONTRACTOR TO VERIFY ALL QUANTITIES.

PAY ITEM	SPEC NO.	DESCRIPTION	UNIT	QUANTITY	PAY ITEM NOTES
001	BIDDING DOCUMENTS & DIVISION ONE	GENERAL REQUIREMENTS	EA	1	GENERAL REQUIREMENTS: GENERAL CONDITIONS AND MISCELLANEOUS DIRECT AND INDIRECT PROJECT COSTS REQUIRED BY THE CONTRACT DOCUMENTS BUT NOT LISTED AS A SPECIFIC UNIT PRICE PAY ITEM IN THE PROPOSAL INCLUDES, BUT IS NOT LIMITED TO MISCELLANEOUS NON-STAFFING COSTS DIRECTLY RELATED TO THE PROJECT, SUCH AS JOB TRAILER, MOBILIZATION, PERMIT FEES (OTHER THAN BUILDING PERMIT PROVIDED BY CITY OF TULSA), TEMPORARY UTILITIES, PERMANENT UTILITY CONNECTION FEES, BARRIERS, SCAFFOLDING, EQUIPMENT RENTAL, CLEANING AND DUMPSTER, ETC. EACH UNIT PRICE WILL BE DEEMED TO INCLUDE AN AMOUNT CONSIDERED BY THE CONTRACTOR TO BE ADEQUATE TO COVER CONTRACTOR'S OVERHEAD AND PROFIT FOR EACH SEPARATELY IDENTIFIED ITEM. PAY ITEMS SHOWN ARE ESTIMATES FOR NET-IN-PLACE QUANTITIES WITH NO ACCOUNTING FOR OVERAGE, SCRAP OR UNUSED CONSTRUCTION WASTE. CONTRACTORS SHALL HAVE BID EACH ITEM AS COMPLETE, NET-IN-PLACE, FOR THE TOTAL PROJECT FROM PERSONAL OBSERVATION AND SHALL NOT RELY ON EXTENDED QUANTITIES TO INCREASE PRICE ABOVE ORIGINAL BID. NO EXTENDED QUANTITIES OR ADDITIONAL PAYMENT ALLOWED FOR GROSS QUANTITIES, EXCESS OR UNUSED CONSTRUCTION WASTE.
002	01 2100	OWNER ALLOWANCE	ALLOW	1	ALLOWANCE INCLUDED FOR UNFORESEEN CONDITIONS REQUIRING ADDITIONAL WORK NOT DEFINED IN THE CONTRACT DOCUMENTS. USED ONLY AT THE DISCRETION OF THE OWNER.
003	01 5000	TEMPORARY FENCING	LF	500	INSTALL TEMPORARY FENCING TO AREA OF WORK THROUGHOUT CONSTRUCTION.
004	01 5000	TEMPORARY PROTECTION- EXTERIOR WALKWAYS	LF	400	PROVIDE AND MAINTAIN, FOR THE DURATION OF CONSTRUCTION, PROTECTIVE COVERINGS OVER EPOXY-COATED WALKWAYS AS NECESSARY TO PROTECT FINISHED SURFACES. PROTECTION SHALL BE OF SUFFICIENT STRENGTH AND DURABILITY TO PREVENT DAMAGE FROM VEHICULAR TRAFFIC, CONSTRUCTION ACTIVITIES, AND ANY ROOFING MATERIALS OR DEBRIS THAT MAY FALL ONTO EXISTING WALKWAYS.
005	01 5000	TREE PROTECTION	SYS	1	INSTALL ORANGE SAFETY TREE PROTECTION TO THE LANDSCAPE SURROUNDING SCOPE OF AREA.
006	01 5000	TEMPORARY PROTECTION - DESERT SKYROOF	SYS	1	INSTALL TEMPORARY PROTECTION IN THE DURATION OF THE REPLACEMENT OF THE SKYROOF GLAZING AND INSTALL THE TRANSLUCENT FIBERGLASS SANDWICH PANELS ON THE EXISTING ROOF STRUCTURE.
007	01 5000	TEMPORARY UTILITIES	SYS	1	PROVIDE ELECTRICAL AND WATER SERVICES AS REQUIRED TO PERFORM CONSTRUCTION ACTIVITIES.
008	01 5000	FIELD OFFICE	SYS	1	PROVIDE CONSTRUCTION FIELD OFFICE AS REQUIRED.
009	01 5000	SANITARY FACILITIES	SYS	1	PROVIDE SANITARY FACILITIES FOR CONSTRUCTION WORKERS AS REQUIRED.
010	01 5000	TEMPORARY ENCLOSURES	SYS	1	PROVIDE TEMPORARY ENCLOSURES SUCH AS TARPAILINGS, BARRICADES AND CANOPIES AS NECESSARY TO PROTECT EXISTING SITE AND BUILDING CONDITIONS DURING CONSTRUCTION.
011	05 3100	STEEL DECKING (REPAIR)	SF	2150	TREAT RUSTED METAL DECK WITH RUST PREVENTING SEALER.
012	05 3100	STEEL DECKING (OVERLAY)	SF	2150	REPAIR DAMAGED METAL DECK WITH OVERLAY OF 22 GAGE GALVANIZED FLAT METAL (AS INSTRUCTED BY ARCHITECT).
013	05 3100	STEEL DECKING (REPLACE)	SF	2150	REPLACE DAMAGED METAL DECK WITH OVERLAY OF 22 GAGE GALVANIZED OF SAME PROFILE AS EXISTING (AS INSTRUCTED BY ARCHITECT).
014	05 5133	METAL LADDERS	EA	8	REPLACE EXISTING FIBERGLASS CROSSOVER ROOF LADDERS WITH NEW ALUMINUM, PRE-FABRICATED, PRE-FINISHED LADDERS. PROVIDE ALL ATTACHMENTS FOR A FULLY FUNCTIONING SYSTEM. CONTRACTOR SHALL EXAMINE EXISTING SUBSTRATE(S) AND ADJACENT MATERIALS FOR RUST, DRY ROT AND OTHER DAMAGE WHICH COULD HINDER THE SUCCESSFUL APPLICATION OF NEW ROOF LADDER.
015	05 5213	PIPE AND TUBE RAILING SYSTEM	LF	88	PROVIDE WALL ATTACHED PIPE AND TUBE RAILING SYSTEM FOR MECHANICAL SYSTEMS AND ROOF HATCH SYSTEMS FOR FALL PROTECTION, PROVIDE CUSTOM COLOR TO MATCH EACH BUILDING COLOR SCHEME (5 TOTAL)
016	06 1000	ROUGH CARPENTRY - WOOD BLOCKING AND BACK OF PARAPET SHEATHING	LF	1450	ADD NEW TREATED WOOD BLOCKING AND PARAPET REPLACEMENT SHEATHING AS INDICATED PER DRAWINGS. REPLACE DETERIORATED WOOD BLOCKING AS NEEDED.
017	07 0150	PREPARATION FOR RE-ROOFING	SYS	1	REMOVE EXISTING ROOFING SYSTEM IN PREPARATION FOR NEW. INCLUDES REMOVAL AND DISPOSAL OF EXISTING ROOFING AND WATERPROOFING SYSTEM DOWN TO STRUCTURAL DECK, PARAPETS, AND OTHER SUBSTRATES. INCLUDES EXISTING ABANDONED EQUIPMENT PLATFORMS, MECHANICAL EQUIPMENT, CURBS, AND OTHER OBJECTS INTERFERING WITH NEW CONSTRUCTION AND INDICATED TO CONTRACTOR TO SHALL EXAMINE EXISTING SUBSTRATE(S) AND ADJACENT MATERIALS FOR RUST, DRY ROT AND OTHER DAMAGE WHICH COULD HINDER THE SUCCESSFUL APPLICATION OF NEW ROOFING SYSTEM. CONTACT ARCHITECT IMMEDIATELY UPON DISCOVERY OF DAMAGE.
018	07 5423	THERMOPLASTIC POLYOLEFIN (TPO) ROOFING	SYS	1	THERMOPLASTIC POLYOLEFIN (TPO) SINGLE-PLY MEMBRANE ROOFING SYSTEM WITH 20 YEAR NDL WARRANTY. ROOFING SYSTEM INCLUDES, SINGLE-PLY MEMBRANE 115 MIL FLEECE BACKED TPO, FULLY-ADHERED TO 1/2-INCH COVERBOARD, OVER TAPERED AND NON-TAPERED INSULATION (R-15 MIN) FASTENED TO DECK AS SHOWN ON DRAWINGS; MEMBRANE FLASHING, SHEET METAL FLASHING, AND COUNTER-FLASHING, ROOF SPECIALTIES, COPINGS AND CURBS. INCLUDES ALL LABOR, EQUIPMENT, AND MATERIALS REQUIRED FOR A COMPLETE INSTALLATION OF A FULLY WARRANTED AND WATERPROOF MEMBRANE ROOFING SYSTEM. COMPLETE CONTRACTOR SHALL CONFIRM ITS OWN QUANTITIES AND BID THE ENTIRE ROOF SYSTEM ACCORDINGLY. NO ADDITIONAL MATERIAL OR LABOR COST ALLOWED FOR VERTICAL FLASHING OR OTHER COMPONENTS OF THE COMPLETED ROOFING SYSTEM.
019	07 6200	SHEET METAL FLASHING AND TRIM	LF	810	FURNISH AND INSTALL SHEET METAL FLASHING ON ROOF EDGES AND MULTI-LEVEL ROOF TRANSITIONS.
020	07 6200	ROOF SPECIALTIES - PRE-FINISHED METAL COPING, PARAPET CAPS, FASCIA, AND GRAVEL STOPS.	LF	2050	FURNISH AND INSTALL PRE-FINISHED METAL COPING, RIDGE CAP, PARAPET CAPS, FASCIA, AND GRAVEL STOPS AS INDICATED ON DRAWINGS. INCLUDES ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED FOR A COMPLETE INSTALLATION OF A FULLY WATERPROOF AND WARRANTED SYSTEM. COLORS TO BE SELECTED BY ARCHITECT.
021	07 7123	GUTTERS, SCUPPER BOXES, AND DOWNSPOUTS	LF	130	FURNISH AND INSTALL GUTTERS AND DOWNSPOUTS IN ACCORDANCE WITH SMACNA GUIDELINES, DRAWINGS, SPECIFICATIONS AND MANUFACTURER'S INSTRUCTIONS. INSTALL WITH LINES AND CORNERS TRUE AND ACCURATE, AND IN PROPER ALIGNMENT FOR POSITIVE DRAINAGE. COORDINATE INSTALLATION WITH OTHER SUBSTRATES, FLASHING AND TRIM, PARAPETS, COPINGS, WALLS AND OTHER ADJACENT WORK. PAY ITEM QUANTITIES SHOWN INDICATE TOTAL LENGTH OF GUTTERS AND DOWNSPOUTS. CONTRACTOR SHALL CONFIRM ITS OWN QUANTITIES AND BID THE ENTIRE GUTTER AND DOWNSPOUT SYSTEM COMPLETE. NO ADDITIONAL COST ALLOWED FOR VARIATIONS BETWEEN QUANTITIES NOTED AND CONTRACTOR'S CONFIRMED QUANTITIES. COLORS TO BE SELECTED BY ARCHITECT.
022	07 7200	ROOF ACCESSORIES: PIPE SUPPORTS	EA	13	FURNISH AND INSTALL FACTORY FABRICATED, NON-PENETRATING PIPE SUPPORTS, FOR INTENDED USE IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS.
023	07 7200	ROOF ACCESSORIES: SPLASHBLOCK	EA	6	CONCRETE SPLASHBLOCK, INSTALL AS INDICATED ON DRAWINGS.

UNIT PRICE SCHEDULE CONT.

PAY ITEM	SPEC NO.	DESCRIPTION	UNIT	QUANTITY	PAY ITEM NOTES
024	07 7200	ROOF ACCESSORIES: ACCESS HATCH & SAFETY EXTENSION RAIL	EA	3	EXISTING LADDER TO REMAIN. INSTALL ANY MISSING OR LOOSE FASTENERS AT LADDER. REMOVE AND INSTALL NEW ROOF ACCESS HATCH WITH SIDE OPERATION AS SHOWN IN DOCUMENTS. CONFIRM EXISTING ROOF HATCH OPENING SIZE FOR REPLACEMENT OF THE SAME SIZE.
025	07 7200	MANUFACTURED CURBS (STRUCTURAL)	EA	2	*REPLACE EXISTING ROOF CURBS WITH NEW MANUFACTURED ROOF CURBS, SIZED APPROPRIATELY TO: 1. PROVIDE 8" MINIMUM HEIGHT ABOVE NEW ROOF MEMBRANE TO TOP OF CURB AROUND ENTIRE PERIMETER OF CURB, AND 2. TO FIT EACH EXISTING AND/OR NEW RTU (INCLUDING ADAPTERS IF ANY) AND OTHER EQUIPMENT WITH CURBS INDICATED TO BE (RE)INSTALLED AFTER ROOF MEMBRANE IS IN PLACE, AND 3. TO FIT ROOF DECK OPENING AND FIELD CONDITION ENCOUNTERED. COORDINATE WITH RTU REMOVAL AND REPLACEMENT PAY ITEMS.*
026	07 7200	MANUFACTURED CURBS (NON STRUCTURAL)	EA	15	*REPLACE EXISTING ROOF CURBS WITH NEW MANUFACTURED ROOF CURBS, SIZED APPROPRIATELY TO: 1. PROVIDE 8" MINIMUM HEIGHT ABOVE NEW ROOF MEMBRANE TO TOP OF CURB AROUND ENTIRE PERIMETER OF CURB, AND 2. TO FIT EACH EXISTING AND/OR NEW RTU (INCLUDING ADAPTERS IF ANY) AND OTHER EQUIPMENT WITH CURBS INDICATED TO BE (RE)INSTALLED AFTER ROOF MEMBRANE IS IN PLACE, AND 3. TO FIT ROOF DECK OPENING AND FIELD CONDITION ENCOUNTERED. COORDINATE WITH OTHER EQUIPMENT REMOVAL AND REPLACEMENT PAY ITEMS.*
027	07 5200	JOINT SEALANTS	SYS	1	PREPARE SURFACES AND SUBSTRATES FOR JOINT SEALANT APPLICATION. INSTALL SEALANT AS INDICATED ON DRAWINGS AND WHERE SPECIFIED. PERFORM THE WORK IN STRICT ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS AND AS REQUIRED FOR A COMPLETE INSTALLATION.
028	08 4523	S-LINE TYPE SQUARE UNIT SKYLIGHTS	EA	4	FURNISH AND INSTALL LABOR, MATERIALS, EQUIPMENT, COMPLETE AND READY FOR INTENDED USE IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS.
029	08 4523	LARGE HEXAGONAL SKYROOF SYSTEM	SYS	1	INSULATED TRANSLUCENT FIBERGLASS SANDWICH PANEL STRUCTURAL SKYLIGHT SYSTEM. FURNISH AND INSTALL LABOR, MATERIALS, EQUIPMENT, COMPLETE AND READY FOR INTENDED USE IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS.
030	08 4523	S-LINE TYPE HEXAGONAL SKYLIGHTS	EA	3	INSULATED TRANSLUCENT FIBERGLASS SANDWICH PANEL STRUCTURAL SKYLIGHT SYSTEM. FURNISH AND INSTALL LABOR, MATERIALS, EQUIPMENT, COMPLETE AND READY FOR INTENDED USE IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS.
031	REF. B/ADI22	GLAZING	SF	16	REMOVE AND REPLACE 1 PANE OF GLASS IN EXHIBITION SPACE IN SOUTHWEST DESERTS BUILDING, REPLACE IN KIND
032	09 2116	GYP SUM BOARD REPAIR	SF	6300	REMOVE AND REPLACE SOUTHWEST DESERT GYPSUM FINSH ON WALLS, VERTICAL SOFFITS, AND CEILINGS BELOW THE SKYROOF LOCATION WITH NEW 5/8" TYPE X GYPSUM WALLBOARD
033	09 5100	ACOUSTICAL CEILING TILES	EA	100	REPLACE WATER DAMAGED CEILING TILES/PANELS WITH NEW, TO MATCH EXISTING IN STYLE, SIZE AND COLOR, AS INDICATED
034	09 9123	INTERIOR PAINTING (SOUTHERN DESERT)	SF	6300	COST TO PREPARE SURFACES AND SUBSTRATES FOR PAINT SYSTEMS APPLICATION. UTILIZE SQUARE FOOTAGE COST FOR AREAS NOT NOTED ON DRAWINGS, BUT AS DIRECTED IN THE FIELD BY THE CITY OF TULSA REP.
035	09 9113	EXTERIOR PAINTING	SF	500	PREPARE SURFACES AND SUBSTRATES FOR PAINT SYSTEMS APPLICATION. PAINT AREAS AS INDICATED ON DRAWINGS. PERFORM THE WORK IN STRICT ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS AND AS REQUIRED FOR A COMPLETE INSTALLATION. COORDINATE WITH ARCHITECT FOR FINISH OF FIBER CEMENT FASCIA. GAS PIPING TO BE YELLOW.
036	22 0500	PLUMBING WORK	SYS	1	PERFORM MISCELLANEOUS WORK ON PLUMBING, WATER, GAS, DRAINAGE AND INDICATED ON DRAWINGS AND SPECIFICATIONS.
037	22 4000	PLUMBING FIXTURES - ROOF HYDRANT	EA	2	FURNISH AND INSTALL HYDRANT IN STRICT ACCORDANCE WITH DRAWINGS, SPECIFICATIONS AND MANUFACTURER'S INSTRUCTIONS. CONNECT TO PERMANENT POTABLE WATER SOURCE FROM INSIDE THE BUILDING WITH AN ACCESSIBLE VALVE. FIELD VERIFY LOCATION OF WATER SOURCE AND INSTALLATION LOCATION OF HYDRANT.
038	22 4000	PLUMBING WORK - GAS LINE	EA	2	RAISE GAS LINE AND PROVIDE TPO PAD BENEATH PIPE SUPPORT. DISCONNECT, EXTEND AND REWELD AS NEEDED.
039	22 4000	PLUMBING - ROOF DRAIN & ACCESSORIES (PRIMARY AND OVERFLOW)	EA	12	FURNISH AND INSTALL ROOF DRAIN ASSEMBLIES AND DRAINAGE PIPING AS INDICATED AND AS SPECIFIED. INCLUDES ALL LABOR, EQUIPMENT AND MATERIALS AS REQUIRED FOR A COMPLETE AND WATERTIGHT INSTALLATION.
040	22 4000	PLUMBING - ROOF DRAIN & ACCESSORIES (PRIMARY)	EA	2	FURNISH AND INSTALL ROOF DRAIN ASSEMBLIES AND DRAINAGE PIPING AS INDICATED AND AS SPECIFIED. INCLUDES ALL LABOR, EQUIPMENT AND MATERIALS AS REQUIRED FOR A COMPLETE AND WATERTIGHT INSTALLATION.
041	23 0500	MECHANICAL WORK	SYS	1	PERFORM MISCELLANEOUS WORK ON RTU'S INDICATED ON DRAWINGS AND SPECIFICATIONS.
042	23 0500	ROOFTOP UNIT - REMOVE AND REINSTALL	EA	2	REMOVE EXISTING RTU'S INCLUDING ADAPTERS, IF ANY, FROM ROOF IN ORDER TO RAISE OR REPLACE ROOF CURBS WITH NEW, ENSURING THAT DUCT CONNECTIONS TO THE UNITS ARE DISCONNECTED BEFORE LIFTING. ONCE NEW ROOF CURBS AND ROOF FLASHING ARE INSTALLED, EXTEND AND ADJUST EXISTING DUCT WORK AS REQUIRED TO PROPERLY ALIGN, AND SEAL WITH REINSTALLED RTU'S AND ADAPTERS. CONNECT ELECTRICAL, FUEL AND CONDENSATE DRAINAGE TO RTU'S TO PROVIDE A COMPLETE AND FUNCTIONAL HVAC SYSTEM. CONDENSATE DRAINS SHALL BE TRAPPED & VENTED AS REQUIRED BY EQUIPMENT MANUFACTURER.
043	26 0500	ELECTRICAL WORK	SYS	1	PROVIDE LABOR, EQUIPMENT AND MATERIALS REQUIRED TO DISCONNECT AND RECONNECT ELECTRICAL SERVICES TO ROOFTOP EQUIPMENT AS NECESSARY FROM THE PROPER INSTALLATION OF ROOFING SYSTEM. PRICE TO INCLUDE REPLACEMENT OF ELECTRICAL COMPONENTS WHICH ARE FOUND TO BE NO LONGER SERVICEABLE (CONDUIT, JUNCTION BOXES, BREAKERS, ETC. IN ORDER TO RESTORE CIRCUITS TO PROPER OPERATION AS QUICKLY AS POSSIBLE.
044	26 0500	ELECTRICAL RECEPTACLES	EA	2	PROVIDE WEATHERPROOF ELECTRICAL RECEPTACLE TO BE MOUNTED ON THE SIDE OF DESIGNATED CONDENSERS AS SHOWN ON DRAWINGS.
045	26 0500	ELECTRICAL CONDUIT	SYS	1	DEMOLISH AND REMOVE EXISTING ELECTRICAL CONDUIT, BLOCKING, SUPPORTS, AND ASSOCIATED APPURTENANCES AS SHOWN ON CONSTRUCTION DRAWINGS. REPLACE DEMOLISHED ELECTRICAL COMPONENTS WITH WEATHER-TIGHT CONDUIT, DISCONNECTS, JUNCTION BOXES, WIRE, PIPING AND SUPPORTS FOR A COMPLETE INSTALLATION TO RESTORE EQUIPMENT INDICATED TO REMAIN TO FULL OPERATION. RESTORE EQUIPMENT TO FULL OPERATION AS QUICKLY AS POSSIBLE. COORDINATE SERVICE DISRUPTIONS WITH CITY OF TULSA FIELD ENGINEERING AND BUILDING OCCUPANTS TO MINIMIZE DISRUPTION.



GH2 ARCHITECTS
21 NORTH GREENWOOD AVE - SUITE 200, TULSA, OKLAHOMA
TULSA ZOO ROOF REPLACEMENT

6421 E 36th St N, Tulsa, OK 74115

PROJECT NUMBER: CP24-21



CITY ARCHITECTURAL BUILDING SERVICES

DRAWN	B. RAMOS	PROJ. MGR.		10/26
DESIGNED		CDS MGR.		
SURVEY		FIELD MGR.		
		CITY ENG.		

ISSUE BLOCK BY: DATE:

SHEET NAME:

PAY SCHEDULE

SHEET NO:

G002

SHEET 3 OF 20

CONSTRUCTION PHASE PLAN

BUILDING A - ARCTIC TUNDRA TO BE COMPLETED FIRST.
BUILDING C - EASTERN FOREST TO BE COMPLETED SECOND.
BUILDING B - SOUTHWEST DESERT TO BE COMPLETED THIRD.

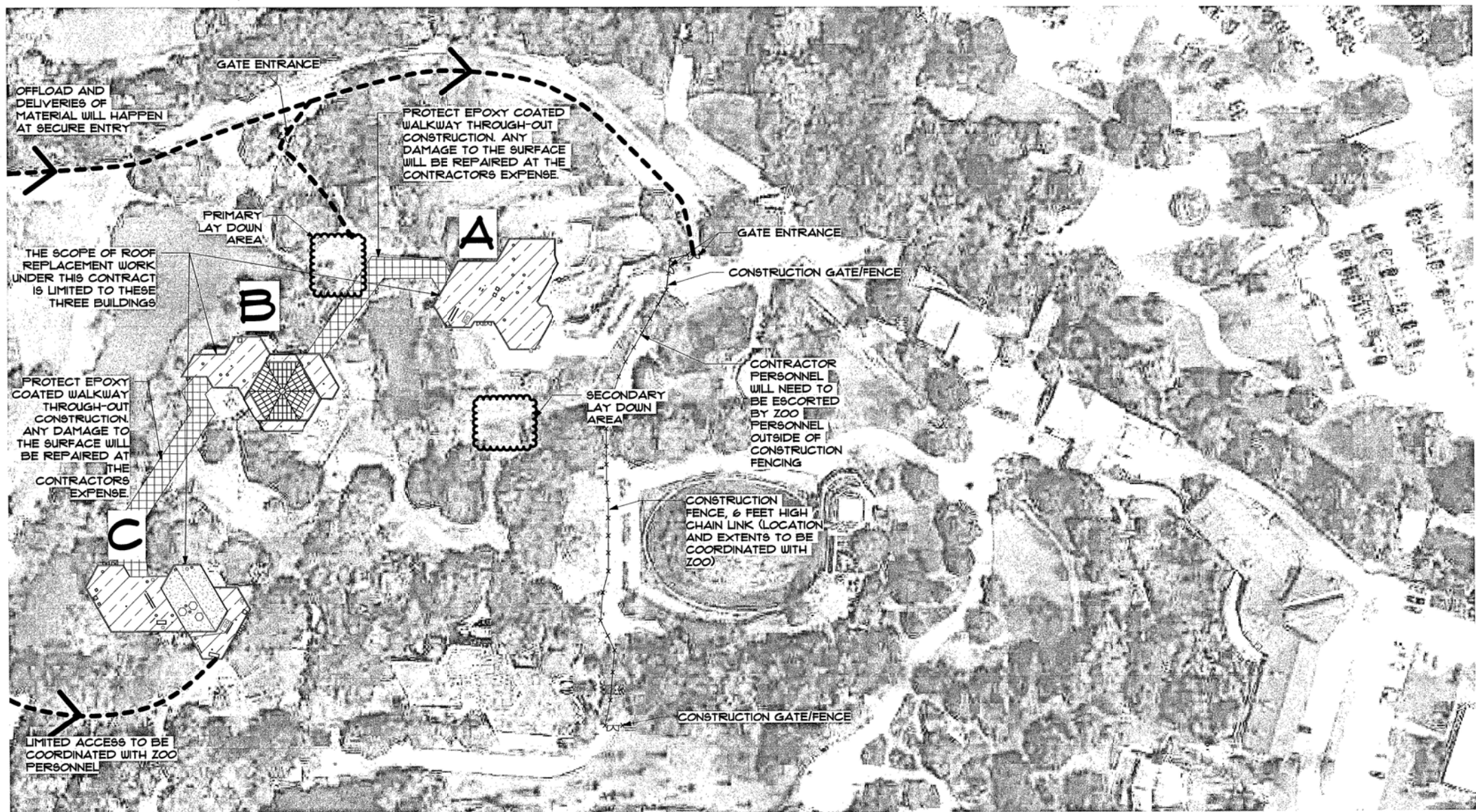
1. COORDINATE THE SCHEDULE AND PHASES WITH ZOO PERSONNEL PRIOR TO START. EACH ROOF NEEDS TO BE INSPECTED BY THE MANUFACTURER, ARCHITECT, CITY OF TULSA AND ZOO PRIOR TO STARTING THE NEXT PHASE
2. ZOO PERSONNEL WILL RELOCATE ANIMALS AND REMOVE THEIR EXHIBITS (TO THE EXTENT POSSIBLE) PRIOR TO CONSTRUCTION ACTIVITIES IN EACH PHASE.
3. DROP OFF OF MATERIALS AND LAYDOWN LOCATIONS ARE SHOWN ON SITE PLAN, BUT ARE OPEN TO DISCUSSION FOR EASE OF CONSTRUCTION ACTIVITIES. NOTE THAT THE AREAS IDENTIFIED ARE FLOOD AREAS, SO PROTECTION OF MATERIALS FROM WATER IS THE CONTRACTOR'S RESPONSIBILITY.
4. ANY CRANE WORK THAT WILL BE TAKING PLACE ABOVE THE TREE TOP LINE IS TO BE COORDINATED WITH THE AIRPORT/FFA 90 DAYS PRIOR TO STARTING CRANE WORK. (CONFIRM WITH ZOO WHO THE CONTACT IS).
5. ANY WORK TAKING PLACE AFTER HOURS IS TO BE COORDINATED WITH ZOO PERSONNEL TO HAVE STAFF ON SITE DURING THAT TIME PERIOD.

SITE PLAN GENERAL NOTES

1. EXISTING TREES TO REMAIN. PROTECT DURING CONSTRUCTION WITH TEMPORARY FENCING AT DRIPLINE.
2. REGRADE AND RESOD ANY DISTURBED AREAS OF LAWN DAMAGED FROM CONSTRUCTION ACTIVITIES. SOD TYPE TO MATCH EXISTING. WATERING SOD AFTER INSTALLATION IS THE RESPONSIBILITY OF THE CONTRACTOR.

SITE PLAN LEGEND

- A ARCTIC TUNDRA BUILDING
- B SOUTHWEST DESERT BUILDING
- C EASTERN FOREST BUILDING
- VEHICULAR CIRCULATION ON SITE
- LAY DOWN AREA



GH2 ARCHITECTS

21 NORTH GREENWOOD AVE - SUITE 200, TULSA, OKLAHOMA

TULSA ZOO ROOF REPLACEMENT

6421 E 36th St N, Tulsa, OK 74115

PROJECT NUMBER: CP24-21



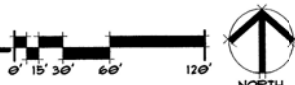
CITY ARCHITECTURAL BUILDING SERVICES

DRAWN	B. RAMOS	PROJ. MGR.	WY	9/16
DESIGNED		CDS MGR.	WY	9/26
SURVEY		FIELD MGR.	WY	9/26
		CITY ENG.	WY	9/26

ISSUE BLOCK BY: DATE:

A SITE PLAN

1" = 60'-0"





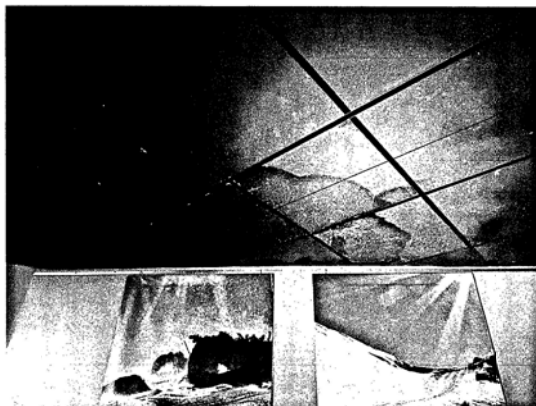
F EXISTING CONDITIONS
PHOTO- ARCTIC CEILING
1 1/2" = 1'-0"



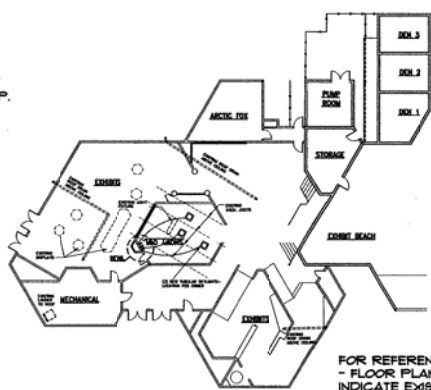
E EXISTING CONDITIONS
PHOTO- ARCTIC CEILING
1 1/2" = 1'-0"



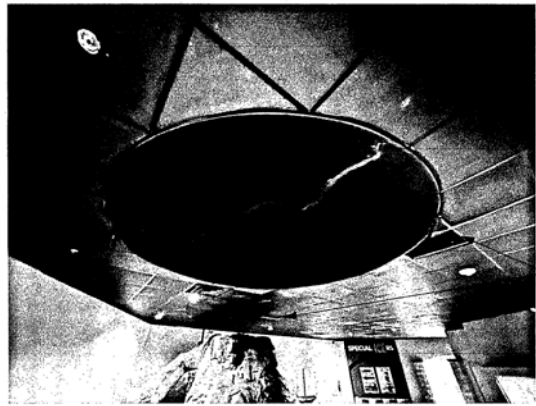
D EXISTING CONDITIONS
PHOTO- ARCTIC CEILING
1 1/2" = 1'-0"



C EXISTING CONDITIONS
PHOTO- ARCTIC CEILING
1 1/2" = 1'-0"



FLOOR PLAN
NTS

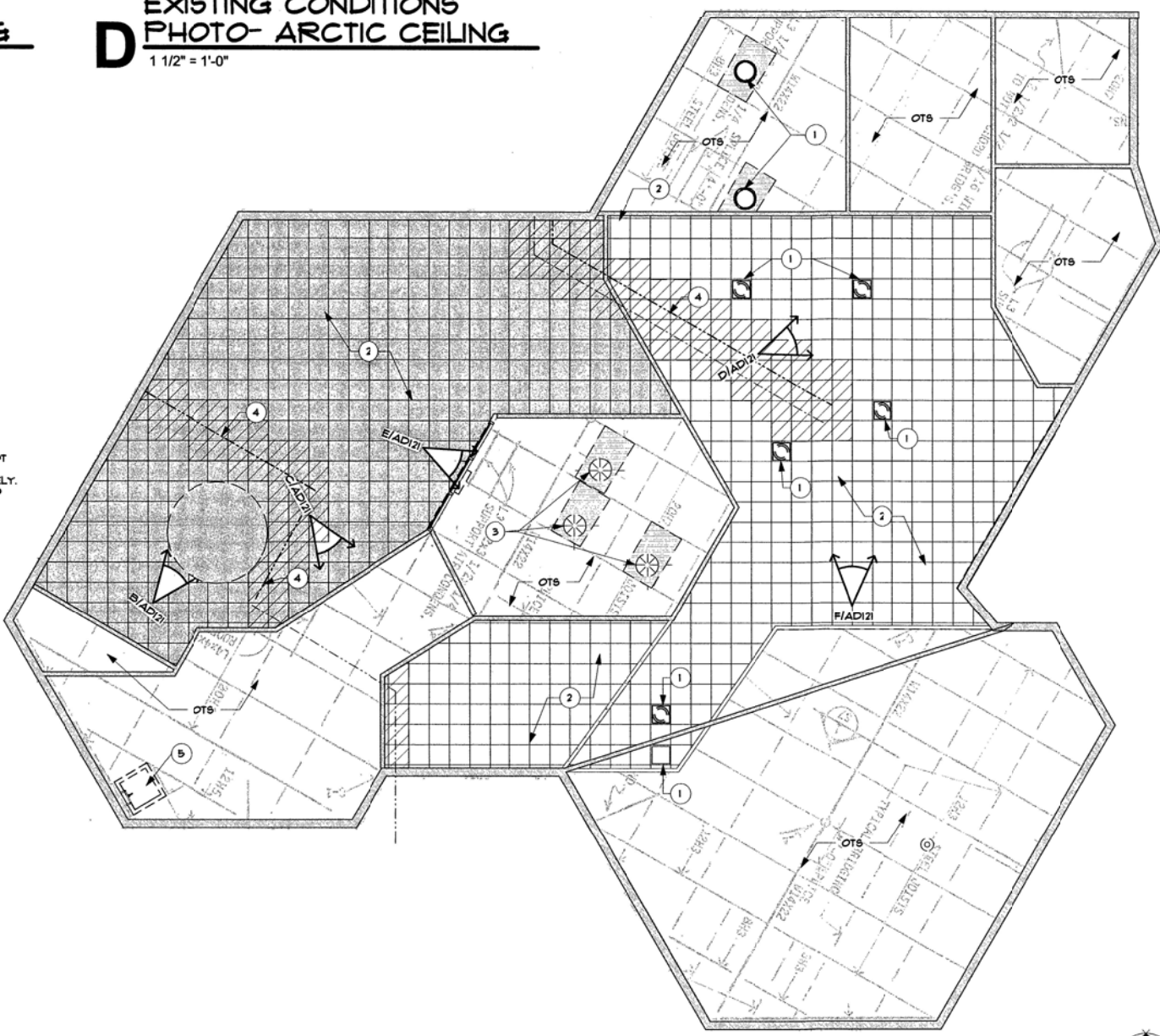


B EXISTING CONDITIONS
PHOTO- ARCTIC CEILING
1 1/2" = 1'-0"

DEMOLITION REFLECTED CEILING PLAN ARCTIC TUNDRA	
NUMBER	DESCRIPTION
1	REMOVE ALL SKYLIGHTS IN ITS ENTIRETY. PATCH CEILING WHERE SKYLIGHT WAS LOCATED WITH NEW MATERIAL. FINISH TO MATCH ADJACENT FINISHES. REFER TO SHEET AD104 FOR DECK REPAIR.
2	REPLACE ALL WATER DAMAGED CEILING TILES/PANELS (APPROX. 25%) WITH NEW ACOUSTIC TILE TO MATCH EXISTING IN STYLE, SIZE AND COLOR. EXISTING GRID TO REMAIN.
3	VERIFY PLACEMENT OF THE NEW SKYLIGHT IN FIELD WITH OWNER PRIOR TO DEMOLITION.
4	REMOVE CEILING SYSTEM AS REQUIRED FOR CEILING WORK ABOVE. SALVAGE CEILING TILES FOR REINSTALLATION.
5	REMOVE ROOF HATCH, REVISE HATCH OPENING DIRECTION AS SHOWN ON ROOF PLAN - A141, REVISE TO INSTALL GUARD/ FALL PROTECTION TO ASSOCIATED LADDER.

EXISTING CEILING AREA	
ACOUSTIC CEILING TILES (WHITE) - 1816 SF APPROXIMATE	
ACOUSTIC CEILING TILES (BLACK) - 1552 SF APPROXIMATE	
TOTAL 3368 APPROXIMATE	
ASSUME 25% REPLACEMENT	

DEMOLITION LEGEND	
	REPLACE ALL WATER DAMAGED, WHITE 2x2 CEILING TILES (APPROX. 25%) WITH NEW TO MATCH EXISTING IN STYLE, SIZE AND COLOR. EXISTING GRID TO REMAIN.
	REPLACE ALL WATER DAMAGED, BLACK 2x2 CEILING TILES (APPROX. 25%) WITH NEW TO MATCH EXISTING IN STYLE, SIZE AND COLOR. EXISTING GRID TO REMAIN.
	EXISTING CONDITIONS PHOTO REFERENCE
	DEMO SOLAR TUBE SKYLIGHT IN ITS ENTIRETY
	EXISTING WALLS
	EXISTING GYPSUM SOFFIT
	EXISTING METAL DECK TO BE REMOVED
	CEILING REMOVAL FOR ABOVE CEILING WORK
	NEW DRAIN LINE
	EXISTING DRAIN LINE
	OTS OPEN TO STRUCTURE



A ARCTIC TUNDRA - DEMOLITION REFLECTED CEILING PLAN
1/8" = 1'-0"



GH2 ARCHITECTS
21 NORTH GREENWOOD AVE - SUITE 200, TULSA, OKLAHOMA
TULSA ZOO ROOF REPLACEMENT
6421 E 36th St N, Tulsa, OK 74115

PROJECT NUMBER: CP24-21

CITY OF TULSA
CITY ARCHITECTURAL BUILDING SERVICES

DRAWN	B. RAMOS	PROJ. MGR.		4/16
DESIGNED		CDS MGR.		2/26
SURVEY		FIELD MGR.		3/26
		CITY ENG.		3/26

ISSUE BLOCK	BY:	DATE:

SHEET NAME:
DEMOLITION REFLECTED CEILING PLAN - ARCTIC TUNDRA
SHEET NO:
AD121



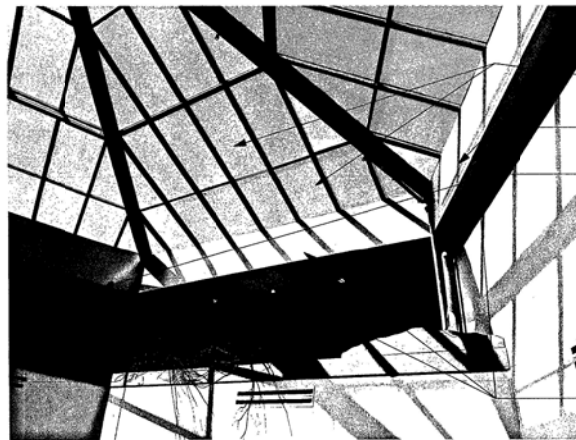
G EXISTING CONDITIONS
PHOTO- DESERT CEILING
1 1/2" = 1'-0"



F EXISTING CONDITIONS
PHOTO- DESERT CEILING
1 1/2" = 1'-0"



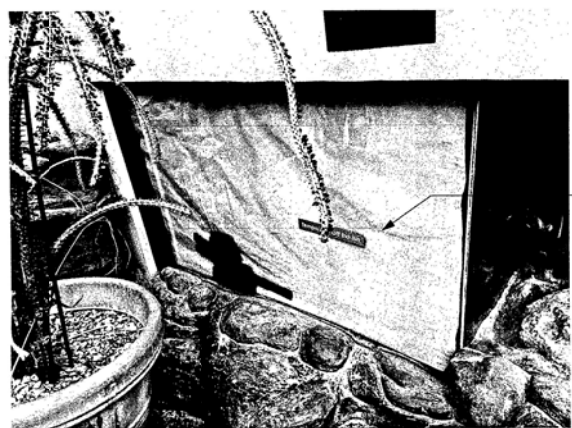
E EXISTING CONDITIONS
PHOTO- DESERT CEILING
1 1/2" = 1'-0"



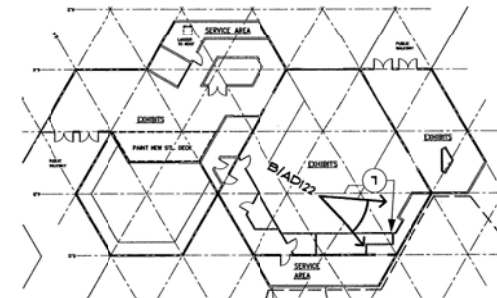
D EXISTING CONDITIONS
PHOTO- DESERT CEILING
1 1/2" = 1'-0"



C EXISTING CONDITIONS
PHOTO- DESERT CEILING
1 1/2" = 1'-0"

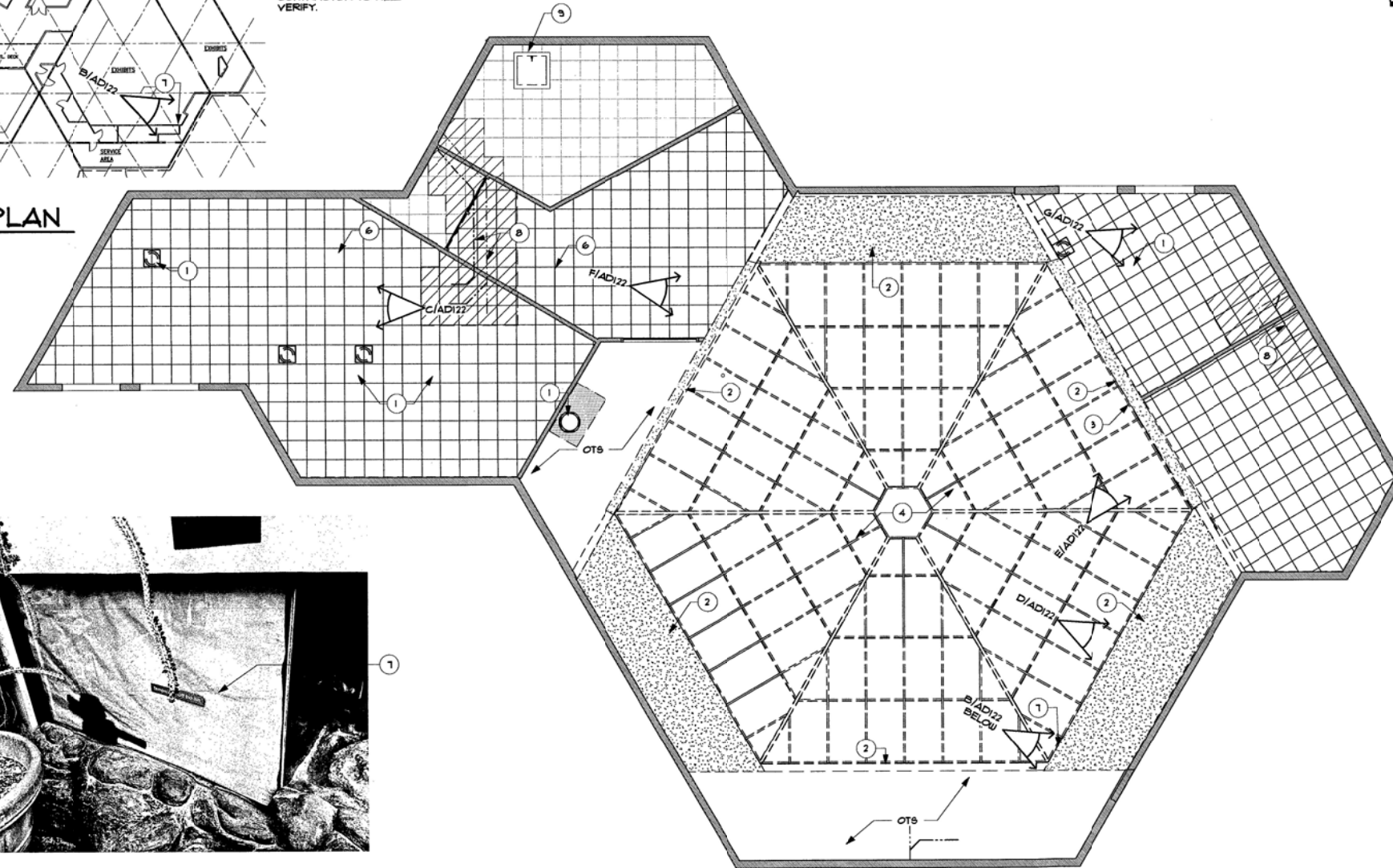


B EXISTING CONDITIONS
PHOTO- DESERT EXHIBIT
1 1/2" = 1'-0"



FLOOR PLAN
NTS

FOR REFERENCE ONLY - FLOOR PLAN MAY NOT INDICATE EXISTING CONDITIONS ACCURATELY. CONTRACTOR TO FIELD VERIFY.



A SOUTHERN DESERTS - DEMOLITION
REFLECTED CEILING PLAN
1/8" = 1'-0"

DEMOLITION REFLECTED CEILING PLAN SOUTHWEST DESERTS

NUMBER	DESCRIPTION
1	REMOVE ALL SKYLIGHTS IN ITS ENTIRETY. PATCH CEILING WHERE SKYLIGHT WAS LOCATED WITH NEW MATERIAL. FINISH TO MATCH ADJACENT FINISHES. REFER TO SHEET A504 FOR DECK REPAIR
2	REMOVE EXISTING VERTICAL AND HORIZONTAL GYPSUM BOARD ON SOFFIT PREPARE FOR INSTALL OF NEW GYPSUM BOARD
3	REMOVE FEELING WALL FINISH AND PREPARE SURFACE TO RECEIVE NEW FINISH TO MATCH
4	REMOVE EXISTING GLAZING AND OTHER APPURTENANCES FROM SKYROOF, LEAVING EXISTING STRUCTURAL FRAMING, MECHANICAL VENT, AND FIRE SPRINKLER SYSTEM IN PLACE. PREPARE FRAMING AS REQUIRED FOR INSTALLATION OF NEW TRANSLUCENT FIBERGLASS SANDWICH PANEL ASSEMBLY.
6	REPLACE ALL WATER DAMAGED CEILING TILES/PANELS (APPROX. 25%) WITH NEW TO MATCH EXISTING IN STYLE, SIZE AND COLOR. EXISTING GRID TO REMAIN. REPLACE ALL MISSING TILES
7	REPLACE EXISTING GLAZING IN KIND IN EXISTING HOLLOW METAL FRAME. FIELD VERIFY SIZE, THICKNESS, AND FRAMING SYSTEM.
8	REMOVE CEILING SYSTEM AS REQUIRED FOR CEILING WORK ABOVE. SALVAGE CEILING TILES FOR REINSTALLATION.
9	REMOVE ROOF HATCH, REVISE TO INSTALL GUARD/ FALL PROTECTION TO ASSOCIATED LADDER.

CEILING AREA

ACOUSTIC CEILING TILE (WHITE) - 2394 SF APPROXIMATE
GYPSUM CEILING BOARD - 2849 SF APPROXIMATE
TOTAL: 5,234 APPROXIMATE
ASSUME 25% REPLACEMENT

DEMOLITION LEGEND

	REPLACE ALL WATER DAMAGED, WHITE 2X2 CEILING TILES (APPROX. 25%) WITH NEW TO MATCH EXISTING IN STYLE, SIZE AND COLOR. EXISTING GRID TO REMAIN
	REPLACE ALL WATER DAMAGED, BLACK 2X2 CEILING TILES (APPROX. 25%) WITH NEW TO MATCH EXISTING IN STYLE, SIZE AND COLOR. EXISTING GRID TO REMAIN
	EXISTING CONDITIONS PHOTO REFERENCE
	DEMO SOLAR TUBE SKYLIGHT IN ITS ENTIRETY
	EXISTING WALLS
	EXISTING GYPSUM SOFFIT
	EXISTING CONCRETE
	EXISTING METAL DECK TO BE REMOVED
	CEILING REMOVAL FOR ABOVE CEILING WORK
	NEW DRAIN LINE
	EXISTING DRAIN LINE
	OTS OPEN TO STRUCTURE



GH2 ARCHITECTS

21 NORTH GREENWOOD AVE - SUITE 200, TULSA, OKLAHOMA

TULSA ZOO ROOF REPLACEMENT

6421 E 36th St N, Tulsa, OK 74115

PROJECT NUMBER: CP24-21



CITY ARCHITECTURAL BUILDING SERVICES

DRAWN	B. RAMOS	PROJ. MGR.	AN	9/16
DESIGNED		CDS MGR.	AN	9/26
SURVEY		FIELD MGR.	AN	9/26
		CITY ENG.	DE	9/26

ISSUE BLOCK	BY:	DATE:

SHEET NAME:
DEMOLITION REFLECTED CEILING
PLAN - SOUTHWEST DESERTS

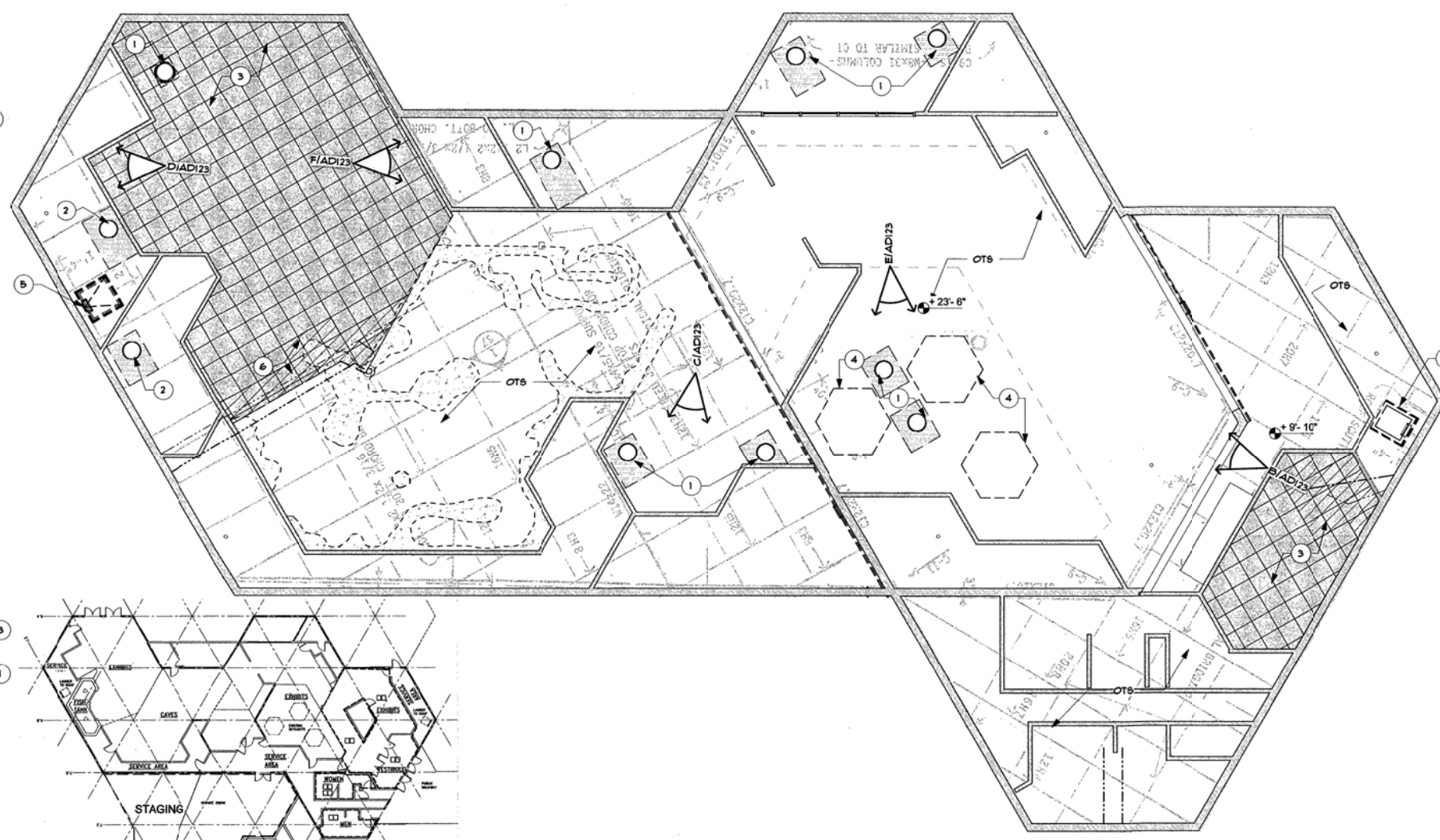
SHEET NO:
AD122

SHEET 6 OF 20



CEILING AREA	
ACOUSTIC CEILING TILES (WHITE) - 407 SF APPROXIMATE	
ACOUSTIC CEILING TILES (BLACK) - 1217 SF APPROXIMATE	
TOTAL: 1,624 SF APPROXIMATE ASSUME 25% REPLACEMENT	

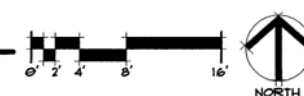
DEMOLITION LEGEND	
	REPLACE ALL WATER DAMAGED, WHITE 2x2 CEILING TILES (APPROX. 25%) WITH NEW TO MATCH EXISTING IN STYLE, SIZE AND COLOR. EXISTING GRID TO REMAIN
	REPLACE ALL WATER DAMAGED, BLACK 2x2 CEILING TILES (APPROX. 25%) WITH NEW TO MATCH EXISTING IN STYLE, SIZE AND COLOR. EXISTING GRID TO REMAIN
	EXISTING CONDITIONS PHOTO REFERENCE
	DEMO SOLAR TUBE SKYLIGHT IN ITS ENTIRETY
	EXISTING WALLS
	EXISTING GYPSUM SOFFIT
	EXISTING METAL DECK TO BE REMOVED
	CEILING REMOVAL FOR ABOVE CEILING WORK
	NEW DRAIN LINE
	EXISTING DRAIN LINE
	OPEN TO STRUCTURE



FLOOR PLAN
NTS

FOR REFERENCE ONLY
- FLOOR PLAN MAY NOT
INDICATE EXISTING
CONDITIONS ACCURATELY
CONTRACTOR TO FIELD
VERIFY

A EASTERN FORESTS - DEMOLITION REFLECTED CEILING PLAN



GH2 ARCHITECTS

21 NORTH GREENWOOD AVE - SUITE 200, TULSA, OKLAHOMA

TULSA ZOO ROOF REPLACEMENT

6421 E 36th St N, Tulsa, OK 74115

PROJECT NUMBER: CP24-21



CITY ARCHITECTURAL BUILDING SERVICES

DRAWN	B. RAMOS	PROJ. MGR.	My	9/12
DESIGNED		CDS MGR.	low	9/2
SURVEY		FIELD MGR.	Sam	9/12
		CITY ENG.	BBB	9/12

ISSUE BLOCK	BY:	DATE:
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SHEET NAME:			

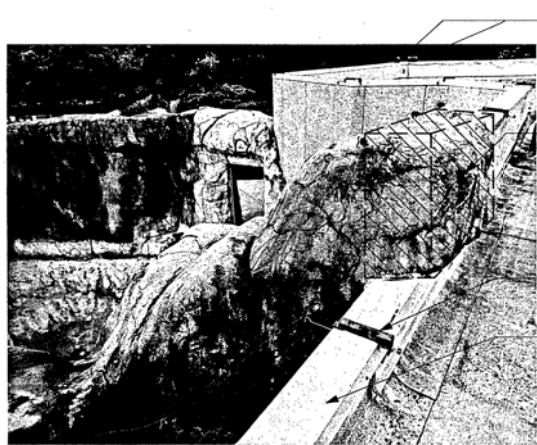
DEMOLITION REFLECTED CEILING

PLAN - EASTERN FOREST

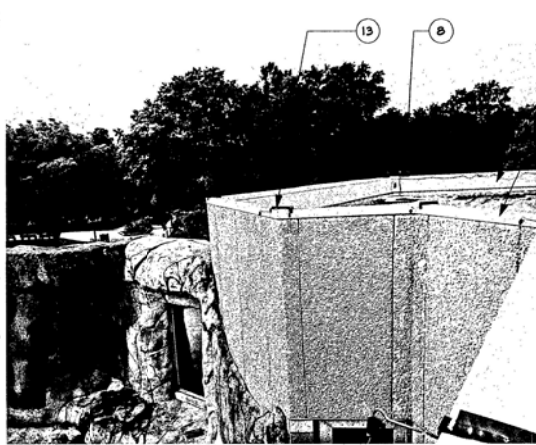
SHEET NO: **AD-100**

AD123 SHEET 7 OF

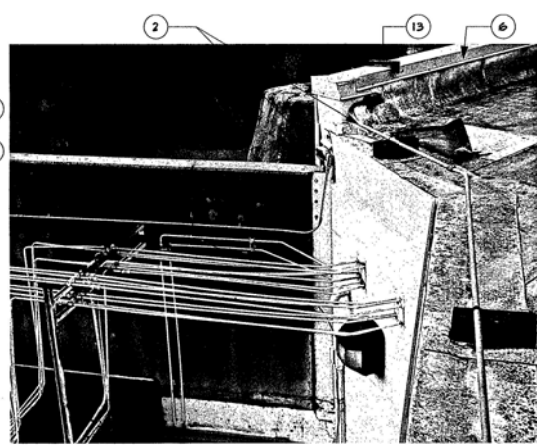
SHEET 7 OF 20



H EXISTING CONDITIONS
PHOTO- ARCTIC ROOF
12" = 1'-0"



G EXISTING CONDITIONS
PHOTO- ARCTIC ROOF
12" = 1'-0"



F EXISTING CONDITIONS
PHOTO- ARCTIC ROOF
12" = 1'-0"

DEMOLITION ROOF PLAN ARCTIC TUNDRA

NUMBER	KEYNOTE TEXT
1	REMOVE SKYLIGHT IN ITS ENTIRETY, REFER TO SHEET A504 FOR DECK REPAIR
2	REMOVE ALL EXISTING ABANDONED CONDUIT, WIRE, SUPPORT BLOCKS AND ELECTRICAL BOXES NO LONGER IN USE. ZOO TEAM TO VERIFY WHICH CONDUITS ARE LIVE VS ABANDONED. PATCH AND FILL ANY HOLES IN ROOF AND FINISH TO MATCH ADJACENT SURFACES. INSTALL FUNCTIONAL WIRING WITHIN ALL NEW CONDUIT AND WEATHERPROOF ELECTRICAL OUTLET COVERS
3	REMOVE EXISTING ROOF HATCH, REVISE TO INSTALL GUARD
4	REMOVE EXISTING ROOF DRAIN, PATCH AND PREPARE TO RECEIVE NEW ROOF DRAINS AS SPECIFIED
5	REMOVE EQUIPMENT RAILING, PATCH AND PREPARE TO RECEIVE NEW ROOFING SYSTEM
6	REMOVE PARAPET METAL COPING CAP
7	REMOVE EXISTING THROUGH WALL SCUPPER FLASHING, PREPARE FOR NEW ROOF CONSTRUCTION AND NEW FLASHING
8	EXISTING SPEAKERS TO BE REMOVED AND REINSTALLED BY OTHERS
9	REMOVE AND REPLACE HOSE BIB
10	FLUE TO REMAIN, EXTEND AS REQUIRED, PROVIDE PROPER FLASHING FOR NEW ROOF SYSTEM
11	VENT THROUGH ROOF TO REMAIN, EXTEND AS REQUIRED, PROVIDE PROPER FLASHING FOR NEW ROOF SYSTEM
12	REMOVE METAL PANELS ON THE INSIDE FACE OF PARAPET AND PREPARE FOR NEW MATERIAL
13	REMOVE AND SALVAGE EXISTING ELECTRICAL WIRING AND CLAMPS OVER EXISTING PARAPET CAP
14	EXISTING ELECTRICAL PENETRATION TO REMAIN, RAISE AND INSTALL CURBING
15	TRIM BACK FAUX BOULDER TO EXPOSE SUB-STRUCTURE. REVIEW EXISTING CONDITIONS ON SITE WITH ARCHITECT. PREPARE TO RECEIVE NEW COPING AND TO REFINISH BACK OF FAUX BOULDER
16	EXISTING MECHANICAL UNIT TO REMAIN. REMOVE AND REPLACE EXISTING CURB FLASHING AS REQUIRED TO PROPERLY INSTALL NEW ROOF SYSTEM

DEMOLITION LEGEND

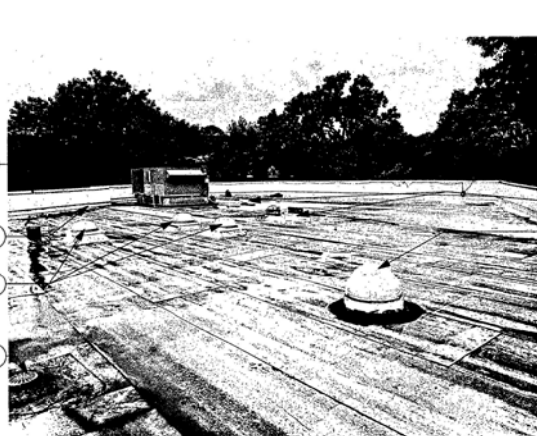
	EXISTING ROOF SYSTEM AND INSULATION IS TO BE REMOVED IN ITS ENTIRETY DOWN TO THE EXISTING METAL ROOF DECK. PREP DECKING AS REQUIRED TO RECEIVE NEW ROOF.		ROOF PENETRATION
	EXISTING CONDITIONS PHOTO REFERENCE		VENT WITH TURBINE
	DEMO SKYLIGHT IN ITS ENTIRETY		MECHANICAL UNIT
	DEMO SKYLIGHT AND CURB IN ITS ENTIRETY		ROOF DRAIN
	DEMO EXISTING ROOF HATCH		SCUPPER
	EXISTING METAL DECK TO BE REMOVED		SPEAKER BY OTHERS
			F.V. FIELD VERIFY

ROOF AREA

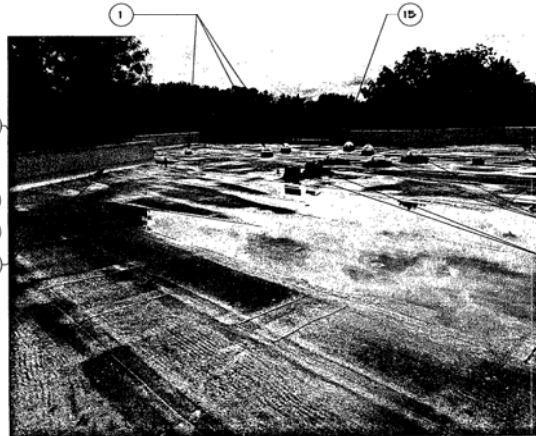
TOTAL AREA - 1,150 SF

DEMOLITION GENERAL NOTES:

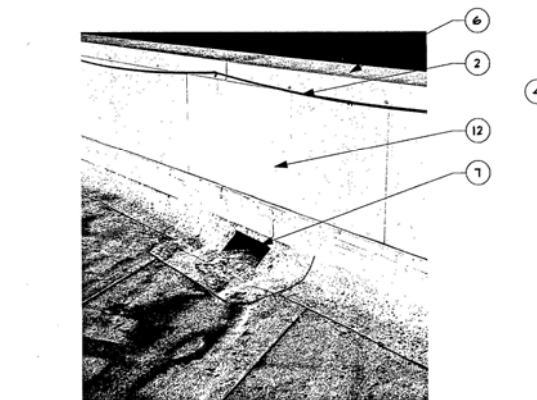
- REMOVE ALL DEVICES THAT ARE NO LONGER FUNCTIONAL, PATCH BACK TO MATCH EXISTING ADJACENT
- ALL PIPING PENETRATIONS TO BE EXTENDED AND BE AT LEAST 8" MINIMUM ABOVE ROOF LEVEL



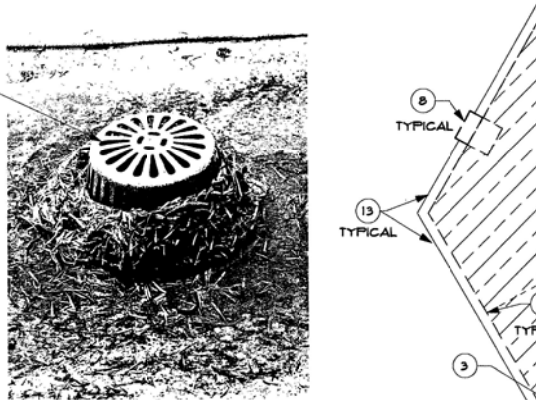
E EXISTING CONDITIONS
PHOTO- ARCTIC ROOF
12" = 1'-0"



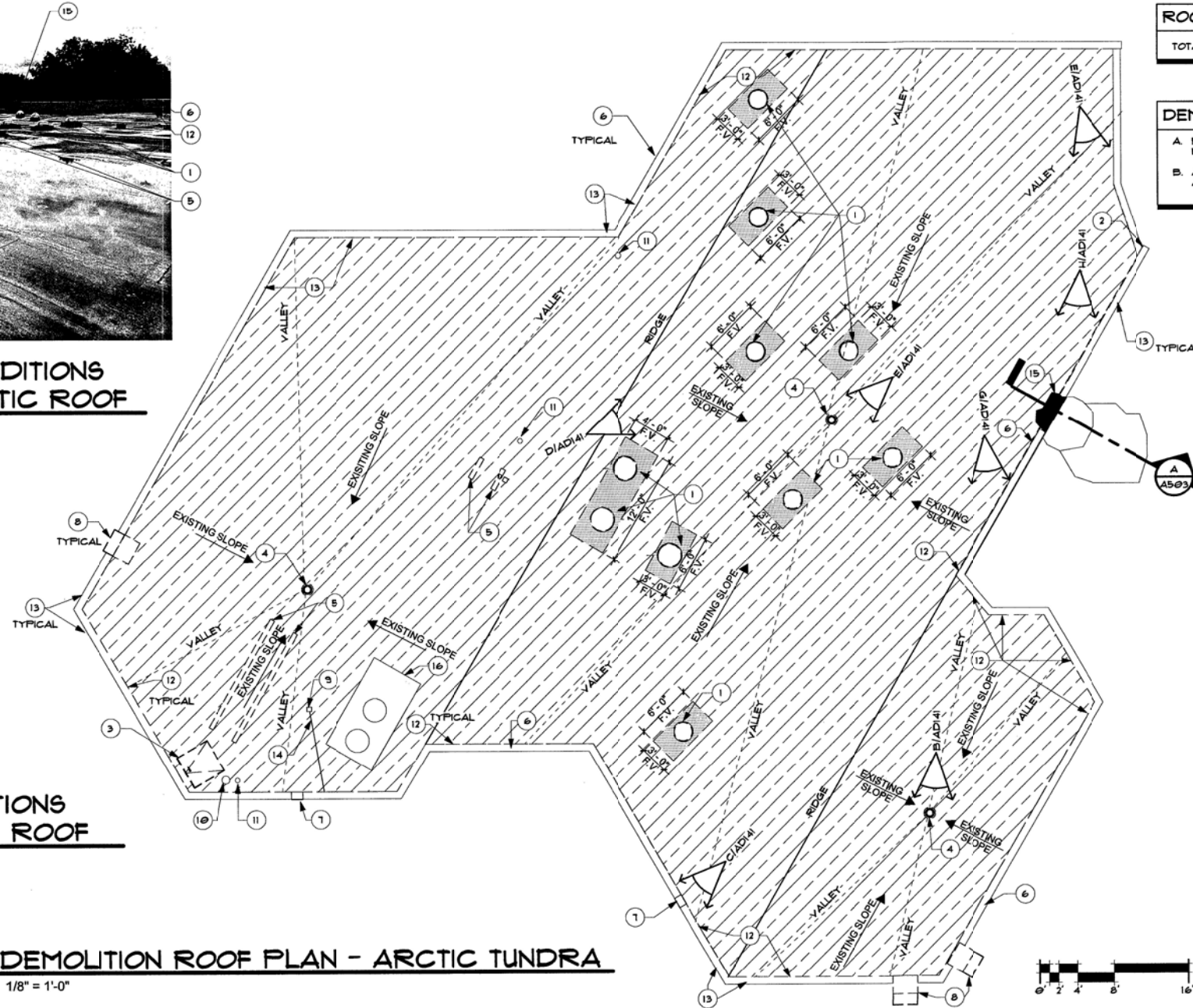
D EXISTING CONDITIONS
PHOTO- ARCTIC ROOF
12" = 1'-0"



C EXISTING CONDITIONS
PHOTO- ARCTIC ROOF
1 1/2" = 1'-0"



B EXISTING CONDITIONS
PHOTO- ARCTIC ROOF
12" = 1'-0"



GH2 ARCHITECTS

21 NORTH GREENWOOD AVE - SUITE 200, TULSA, OKLAHOMA

TULSA ZOO ROOF REPLACEMENT

6421 E 36th St N, Tulsa, OK 74115

PROJECT NUMBER: CP24-21



CITY ARCHITECTURAL BUILDING SERVICES

DRAWN	B. RAMOS	PROJ. MGR.	W. J. 9/16
DESIGNED		CDS MGR.	R. J. 9/26
SURVEY		FIELD MGR.	L. J. 9/26
		CITY ENG.	F. J. 9/26

ISSUE BLOCK	BY:	DATE:

SHEET NAME:
DEMOLITION ROOF PLAN - ARCTIC TUNDRA

SHEET NO:
AD141

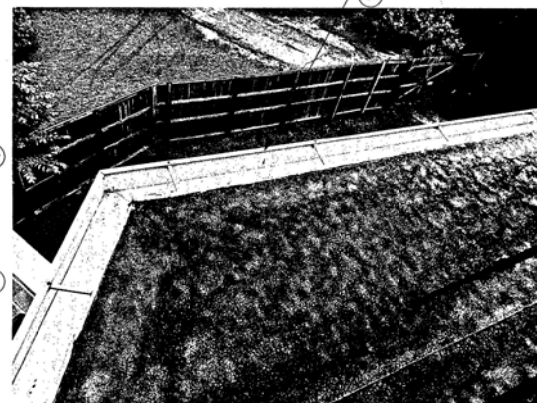
SHEET 8 OF 20



G EXISTING CONDITIONS
PHOTO- DESERT ROOF
12" = 1'-0"



F EXISTING CONDITIONS
PHOTO- DESERT ROOF
12" = 1'-0"



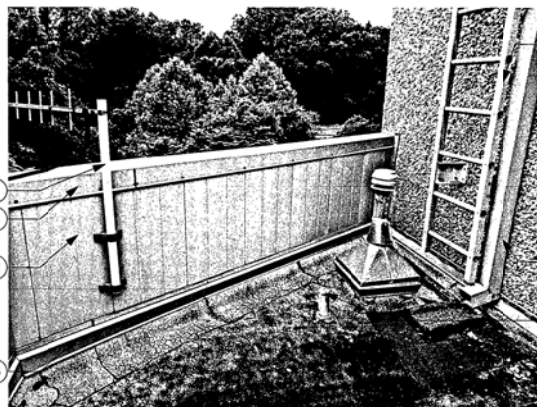
E EXISTING CONDITIONS
PHOTO- DESERT ROOF
12" = 1'-0"

DEMOLITION ROOF PLAN SOUTHWEST DESERTS	
NUMBER	DESCRIPTION
1	REMOVE EXISTING GLAZING AND OTHER APPURTENANCES FROM SKYROOF, LEAVING EXISTING ALUMINUM STRUCTURAL FRAMING IN PLACE. PREPARE AS REQUIRED FOR INSTALLATION OF NEW KALWALL PANELS.
2	REMOVE SKYLIGHT IN ITS ENTIRETY, REFER TO SHEET AD142 FOR DECK REPAIR.
3	REMOVE EXISTING ROOF HATCH, REVISE TO INSTALL GUARD.
4	REMOVE ANTENNAS IN THEIR ENTIRETY, PATCH WALL AS NEEDED.
5	REMOVE EXISTING ROOF DRAINS, PATCH AND PREPARE TO RECEIVE NEW ROOF DRAINS AS SPECIFIED.
6	REMOVE PARAPET METAL COPING CAP.
7	REMOVE EXISTING LADDERS, PATCH AND PREPARE WALL TO RECEIVE NEW LADDER.
8	REMOVE EXISTING DOWNSPOUTS AND GUTTER SYSTEMS.
9	REMOVE EXISTING THROUGH WALL SCUPPER FLASHING, PREPARE FOR NEW ROOF CONSTRUCTION AND NEW FLASHING.
10	FLUE TO REMAIN, EXTEND AS REQUIRED, PROVIDE PROPER FLASHING FOR NEW ROOF SYSTEM.
11	VENT WITH TURBINE TO REMAIN, EXTEND AS REQUIRED, PROVIDE PROPER FLASHING FOR NEW ROOF SYSTEM.
12	REMOVE METAL PANELS ON THE INSIDE FACE OF PARAPET AND PREPARE FOR NEW MATERIAL.
13	REMOVE ALL EXISTING ABANDONED CONDUIT, WIRE, SUPPORT BLOCKS AND ELECTRICAL BOXES NO LONGER IN USE. ZOO TEAM TO VERIFY WHICH CONDUITS ARE LIVE VS ABANDONED. PATCH AND FILL ANY HOLES IN ROOF AND FINISH TO MATCH ADJACENT SURFACES. INSTALL FUNCTIONAL WIRING WITH ALL NEW CONDUIT AND WEATHERPROOF ELECTRICAL OUTLET COVERS.
14	REMOVE ALL WALL FLASHING BELOW METAL PANEL. PREPARE FOR NEW MATERIAL.

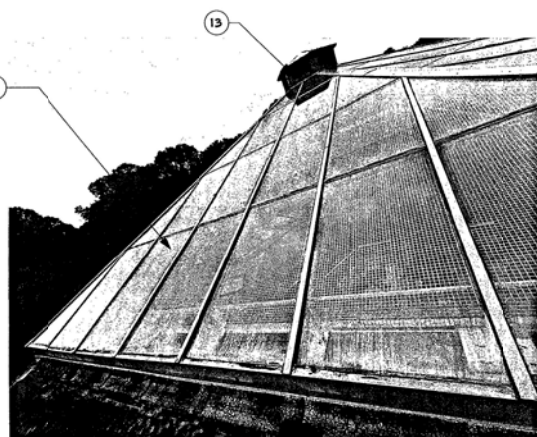
DEMOLITION LEGEND	
	EXISTING ROOF SYSTEM AND INSULATION IS TO BE REMOVED IN ITS ENTIRETY DOWN TO THE EXISTING METAL ROOF DECK, PREP DECKING AS REQUIRED TO RECEIVE NEW ROOF.
	ROOF PENETRATION
	VENT WITH TURBINE
	EXISTING CONDITIONS PHOTO REFERENCE
	MECHANICAL UNIT
	DEMO SKYLIGHT IN ITS ENTIRETY
	ROOF DRAIN
	DEMO SKYLIGHT AND CURB IN ITS ENTIRETY
	SCUPPER
	DEMO EXISTING ROOF HATCH
	SPEAKER BY OTHERS
	EXISTING METAL DECK TO BE REMOVED
	F.V. FIELD VERIFY

ROOF AREA	
AREA A - 2,349 SF	AREA D - 388 SF
AREA B - 2450 SF	AREA E - 176 SF
AREA C - 825 SF	AREA F - 178 SF
AREA G - 193 SF	
TOTAL (APPROXIMATE) - 6,560 SF	

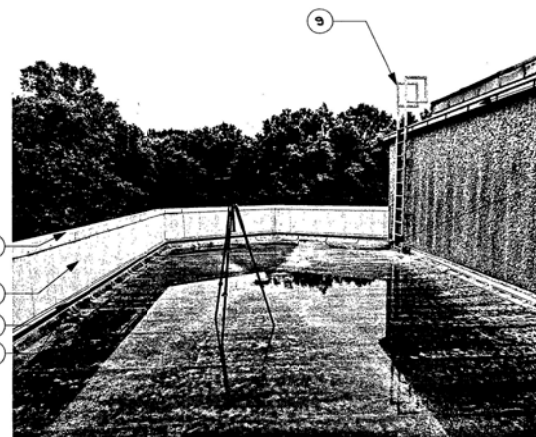
DEMOLITION GENERAL NOTES:	
A. REMOVE ALL DEVICES THAT ARE NO LONGER FUNCTIONAL, PATCH BACK TO MATCH EXISTING ADJACENT.	
B. ALL PIPING PENETRATIONS TO BE EXTENDED AND BE AT LEAST 8" MINIMUM ABOVE ROOF LEVEL.	



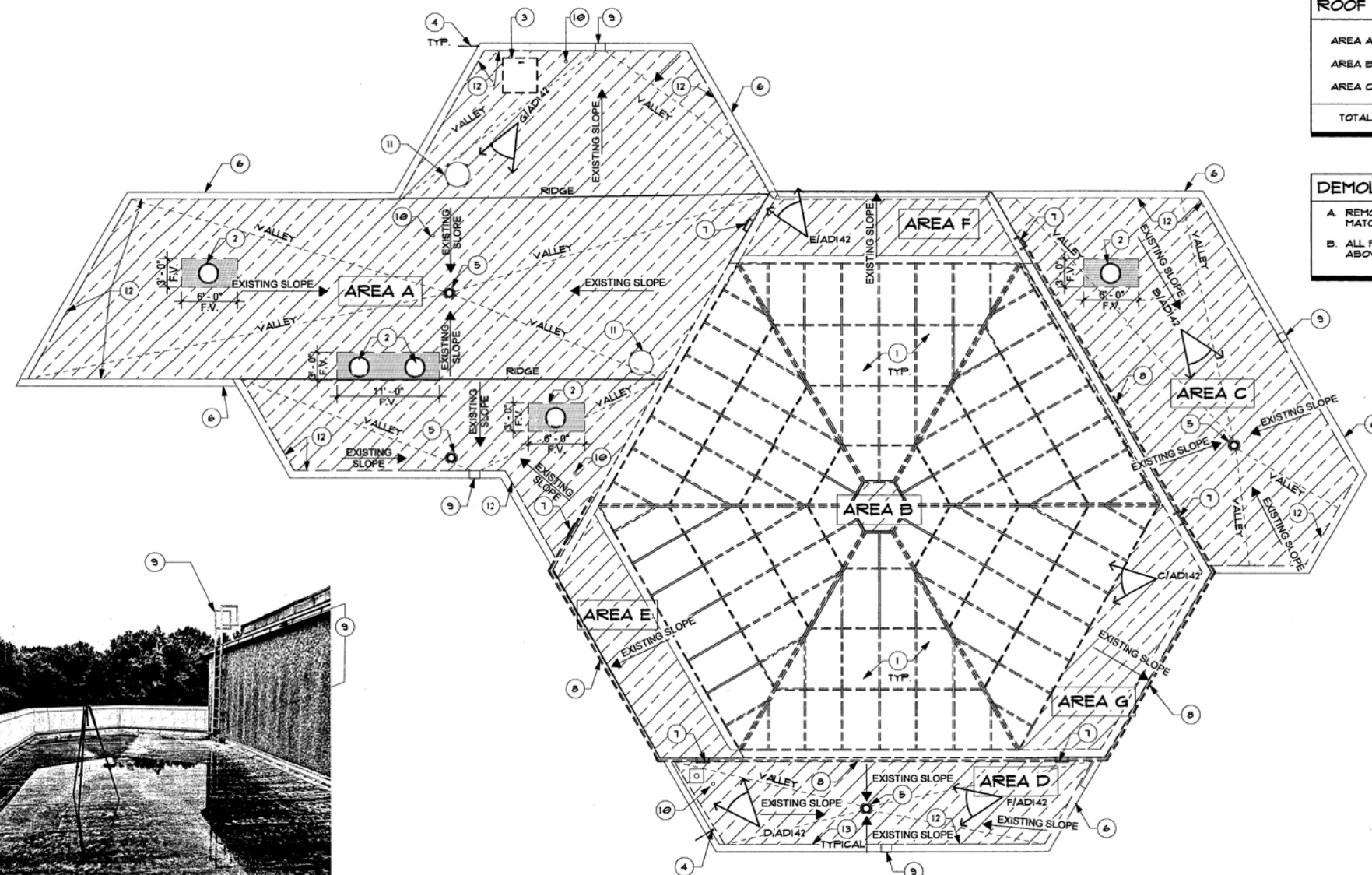
D EXISTING CONDITIONS
PHOTO- DESERT ROOF
12" = 1'-0"



C EXISTING CONDITIONS
PHOTO- DESERT ROOF
12" = 1'-0"



B EXISTING CONDITIONS
PHOTO- DESERT ROOF
12" = 1'-0"



A DEMOLITION ROOF PLAN -SOUTHWEST DESERTS
1/8" = 1'-0"



GH2 ARCHITECTS
21 NORTH GREENWOOD AVE - SUITE 200, TULSA, OKLAHOMA

TULSA ZOO ROOF REPLACEMENT

6421 E 36th St N, Tulsa, OK 74115

PROJECT NUMBER: CP24-21

CITY OF TULSA
CITY ARCHITECTURAL BUILDING SERVICES

DRAWN	B. RAMOS	PROJ. MGR.	<i>[Signature]</i>	9/16
DESIGNED		CDS MGR.	<i>[Signature]</i>	9/16
SURVEY		FIELD MGR.	<i>[Signature]</i>	9/16
		CITY ENG.	<i>[Signature]</i>	9/16

ISSUE BLOCK

BY: DATE:

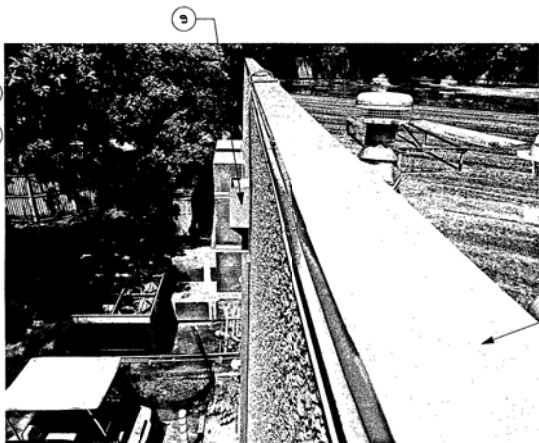
SHEET NAME: **DEMOLITION ROOF PLAN -SOUTHWEST DESERTS**

SHEET NO: **AD142**

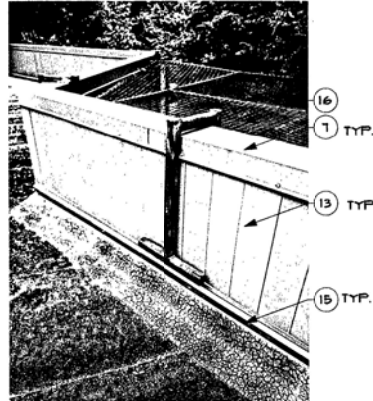
SHEET 9 OF 20



F EXISTING CONDITIONS
PHOTO- FOREST ROOF
12" = 1'-0"



E EXISTING CONDITIONS
PHOTO- FOREST ROOF
12" = 1'-0"



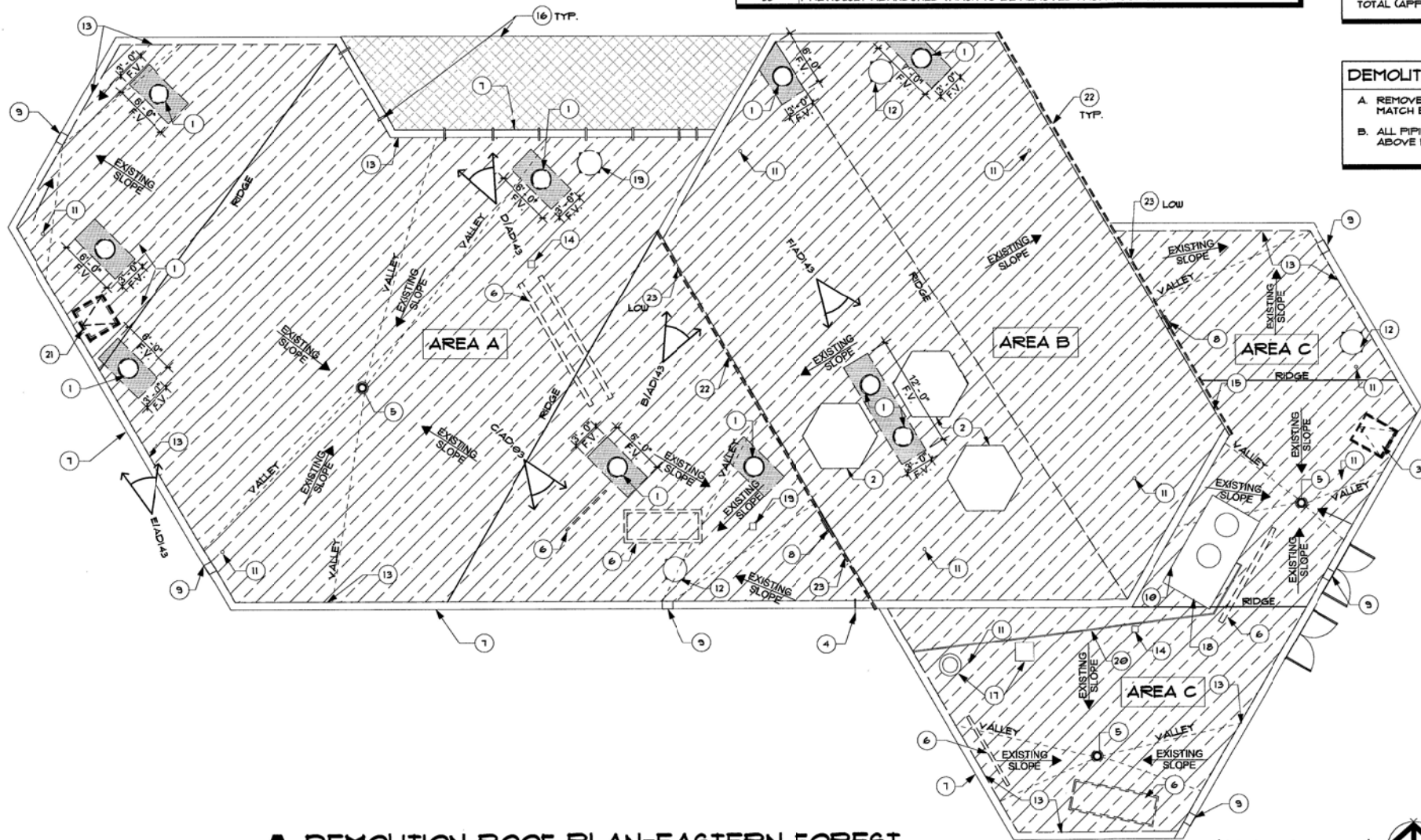
D EXISTING CONDITIONS
PHOTO - FOREST
ROOF
12" = 1'-0"



C EXISTING CONDITIONS
PHOTO- FOREST ROOF
12" = 1'-0"



B EXISTING CONDITIONS
PHOTO- FOREST ROOF
12" = 1'-0"



A DEMOLITION ROOF PLAN-EASTERN FOREST
1/8" = 1'-0"

DEMOLITION ROOF PLAN EASTERN FORESTS

NUMBER	DESCRIPTION
1	REMOVE ALL SKYLIGHTS, PATCH AND REPLACE ROOF DECK TO MATCH ADJACENT EXISTING STRUCTURAL DECK. PREPARE TO RECEIVE NEW ROOF. REFER TO SHEET A504 FOR DECK REPAIR.
2	REMOVE SKYLIGHT IN ITS ENTIRETY, PREPARE FOR INSTALL OF REPLACEMENT SKYLIGHT.
3	REMOVE EXISTING ROOF HATCH, REPAIR TO INSTALL GROUND.
4	REMOVE ANTENNAS IN THEIR ENTIRETY, PATCH WALL AS NEEDED.
5	REMOVE EXISTING ROOF DRAINS, PATCH AND PREPARE TO RECEIVE NEW ROOF DRAINS AS SPECIFIED.
6	REMOVE EQUIPMENT RAILING.
7	REMOVE PARAPET METAL COPING CAP.
8	REMOVE EXISTING LADDERS, PATCH AND PREPARE WALL TO RECEIVE NEW LADDER.
9	REMOVE EXISTING THROUGH WALL SCUPPER FLASHING, PREPARE FOR NEW ROOF CONSTRUCTION AND NEW FLASHING.
10	REMOVE AND REPLACE HOSE BIB.
11	FLUE TO REMAIN, EXTEND AS REQUIRED, PROVIDE PROPER FLASHING FOR NEW ROOF SYSTEM.
12	VENT WITH TURBINE TO REMAIN, EXTEND AS REQUIRED, PROVIDE PROPER FLASHING FOR NEW ROOF SYSTEM.
13	REMOVE METAL PANELS ON THE INSIDE FACE OF PARAPETS AND PREPARE FOR NEW MATERIAL.
14	EXISTING ELECTRICAL PENETRATION TO REMAIN, RAISE AND INSTALL CURBING.
15	REMOVE ALL WALL FLASHING BELOW METAL PANEL, PREPARE FOR NEW MATERIAL.
16	OWNER (ZOO) TO REMOVE AND REINSTALL SCREEN ENCLOSURE AND ASSOCIATED METAL BRACING. GC TO COORDINATE AS REQUIRED.
17	EXISTING ROOFING PENETRATION TO REMAIN, REMOVE AND REPLACE CURB FLASHING AS REQUIRED TO INSTALL NEW ROOF.
18	EXISTING RTU TO REMAIN, REMOVE AND REPLACE FLASHING AT CURB AS REQUIRED TO INSTALL NEW ROOF.
19	EXISTING MECHANICAL EQUIPMENT APPEARS TO BE NON-FUNCTIONAL. CONTRACTOR TO CONFIRM THIS IS ABANDONED, IF SO, REMOVE ALL NON-FUNCTIONAL EQUIPMENT AND PATCH ROOF. IF MECHANICAL VENTING IS REQUIRED AT THIS LOCATION, REPLACE IN KIND.
20	EXISTING GAS LINE TO REMAIN, RAISE AS REQUIRED TO ACCOMMODATE NEW ROOF SLOPE.
21	REMOVE ROOF HATCH AND INTERIOR LADDER, IN ITS ENTIRETY, PATCH AND REPAIR WALL WHERE LADDER HAS BEEN REMOVED, PAINT TO MATCH EXISTING ADJACENT WALL FINISH. REFER TO A504 FOR DECK REPAIR.
22	REMOVE EXISTING GUTTER AND DOWNSPOUTS, PREPARE FOR INSTALLATION OF NEW.
23	REMOVE EXISTING FLASHING AS REQUIRED TO PROPERLY INSTALL NEW ROOF. PROTECT WALL FINISH ABOVE FLASHING. REPAIR AS REQUIRED.
24	REMOVE ALL EXISTING ABANDONED CONDUIT, WIRE, SUPPORT BLOCKS AND ELECTRICAL BOXES NO LONGER IN USE. ZOO TEAM TO VERIFY WHICH CONDUITS ARE LIVE VS ABANDONED. PATCH AND FILL ANY HOLES IN ROOF AND FINISH TO MATCH ADJACENT SURFACES. INSTALL FUNCTIONAL WIRING WITHIN ALL NEW CONDUIT AND WEATHERPROOF ELECTRICAL OUTLET COVERS.
25	PREVIOUSLY ABANDONED TRASH TO BE REMOVED FROM ROOF TOP.

DEMOLITION LEGEND

	EXISTING ROOF SYSTEM AND INSULATION IS TO BE REMOVED IN ITS ENTIRETY DOWN TO THE EXISTING METAL ROOF DECK, PREP DECKING AS REQUIRED TO RECEIVE NEW ROOF.		ROOF PENETRATION
	EXISTING CONDITIONS PHOTO REFERENCE		VENT WITH TURBINE
	DEMO SKYLIGHT IN ITS ENTIRETY		MECHANICAL UNIT
	DEMO SKYLIGHT AND CURB IN ITS ENTIRETY		ROOF DRAIN
	DEMO EXISTING ROOF HATCH		SCUPPER
	EXISTING METAL DECK TO BE REMOVED		SPEAKER BY OTHERS
			F.V. FIELD VERIFY

ROOF AREA

AREA A - 3,658 SF
AREA B - 2,334 SF
AREA C - 1,566 SF
TOTAL (APPROXIMATELY) : 7,620

DEMOLITION GENERAL NOTES:

- REMOVE ALL DEVICES THAT ARE NO LONGER FUNCTIONAL, PATCH BACK TO MATCH EXISTING ADJACENT.
- ALL PIPING PENETRATIONS TO BE EXTENDED AND BE AT LEAST 8" MINIMUM ABOVE ROOF LEVEL.



GH2 ARCHITECTS

21 NORTH GREENWOOD AVE - SUITE 200, TULSA, OKLAHOMA

TULSA ZOO ROOF REPLACEMENT

6421 E 36th St N, Tulsa, OK 74115

PROJECT NUMBER: CP24-21



CITY ARCHITECTURAL BUILDING SERVICES

DRAWN	B. RAMOS	PROJ. MGR.	WJ	9/26
DESIGNED		CDS MGR.	WJ	9/26
SURVEY		FIELD MGR.	WJ	9/26
		CITY ENG.	WJ	9/26

ISSUE BLOCK BY: DATE:

SHEET NAME:
DEMOLITION ROOF PLAN - EASTERN
FOREST

SHEET NO:
AD143

SHEET 10 OF 20

9/22/2025 8:40:01 AM



REFLECTED CEILING PLAN LEGEND

	2x2 ACOUSTIC CEILING TILE (ACT) PAINTED BLACK		10'-0" AFF	CEILING HEIGHT
	2x2 ACOUSTIC CEILING TILE (ACT)		ALIGN	ALIGN FINISHED SURFACES
	NEW GYPSUM BOARD CEILING		OPEN TO STRUCTURE	
	EXISTING WALLS		NEW TRANSLUCENT PANEL SYSTEM	
	EXISTING BULKHEAD		PROVIDE NEW CEILING TILE FROM REMOVED SKYLIGHT LOCATION	
	NEW METAL DECK			

NEW CONSTRUCTION KEYNOTES ARCTIC TUNDRA

NUMBER	DESCRIPTION
1	NEW CURB MOUNTED 5'-0" SQUARE SKYLIGHTS. COORDINATE CURB HEIGHT WITH NEW ROOF INSULATION TO MAINTAIN 8" CLEARANCE MINIMUM ABOVE TOP OF ROOF. COORDINATE SKYLIGHT WITH EXISTING DECKING AND INTERIOR FINISHES AS REQUIRED. FIELD VERIFY FINAL LOCATION WITH ROOF STRUCTURE AND ZOO PERSONNEL.
2	REMOVE AND REPLACE DAMAGED, STAINED, OR MISSING CEILING TILES IN THIS AREA. INCLUDE THE REPLACEMENT OF 25% OF EXISTING CEILING TILES TO MATCH STYLE AND COLOR OF EXISTING ADJACENT TILES.
3	NEW CEILING TILE AND GRID AT ORIGINAL LOCATION OF GYPSUM DOME. STYLE TO MATCH EXISTING ADJACENT TILES. WHITE TILE AND GRID TO BE FIELD PAINTED BLACK.
4	REINSTALL PORTION OF CEILING SYSTEMS REMOVED FOR NEW WORK ABOVE CEILING. REPLACE DAMAGED TILES WITH NEW TO MATCH EXISTING.
5	PATCH/REPAIR ACT CEILING WITH NEW TILE IN LOCATION OF PREVIOUS.
6	INSTALL NEW METAL DECK WHERE SKYLIGHT HAS BEEN REMOVED, REFER TO SHEET A504 FOR DECK REPAIR.
7	NEW ROOF HATCH INSTALLED AT PREVIOUS LOCATION. REFER TO DETAIL DIA502.

REFLECTED CEILING PLAN GENERAL NOTE

A. EXISTING STRUCTURAL CONDITIONS ARE BASED ON AVAILABLE RECORD INFORMATION. THE CONTRACTOR SHALL VERIFY FIELD CONDITIONS AFFECTING THE WORK AND NOTIFY THE ARCHITECT OF DISCREPANCIES PRIOR TO PROCEEDING WITH AFFECTED WORK.



GH2 ARCHITECTS

21 NORTH GREENWOOD AVE - SUITE 200, TULSA, OKLAHOMA

TULSA ZOO ROOF REPLACEMENT

6421 E 36th St N, Tulsa, OK 74115

PROJECT NUMBER: CP24-21



CITY ARCHITECTURAL BUILDING SERVICES

DRAWN	B. RAMOS	PROJ. MGR.		9/14
DESIGNED		CDS MGR.		9/26
SURVEY		FIELD MGR.		9/26
		CITY ENG.		9/26

ISSUE BLOCK BY: DATE:

SHEET NAME:
**ARCTIC TUNDRA REFLECTED
CEILING PLAN**

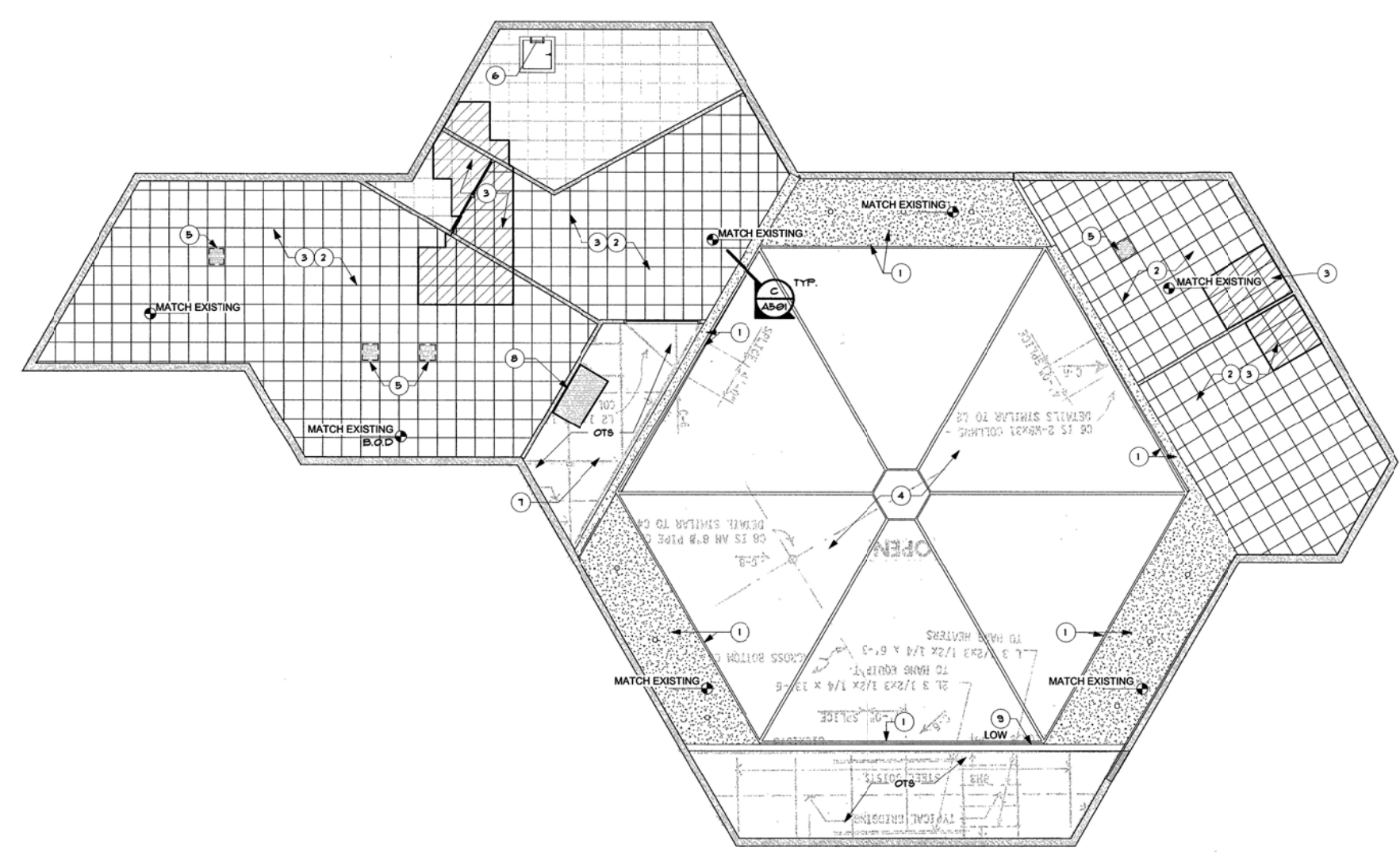
SHEET NO.
A121

SHEET 11 OF 20

ARCTIC TUNDRA - REFLECTED CEILING PLAN

1/8" = 1'-0"





REFLECTED CEILING PLAN LEGEND			
	2x2 ACOUSTIC CEILING TILE (ACT) PAINTED BLACK		10'-0" AFF CEILING HEIGHT
	2x2 ACOUSTIC CEILING TILE (ACT)		ALIGN FINISHED SURFACES
	NEW GYPSUM BOARD CEILING		OPEN TO STRUCTURE
	EXISTING WALLS		EXISTING BULKHEAD
	NEW METAL DECK		PROVIDE NEW CEILING TILE FROM REMOVED SKYLIGHT LOCATION

REFLECTED CEILING PLAN SOUTHWEST DESERTS	
NUMBER	DESCRIPTION
1	INSTALL NEW 1/2" OR 5/8" GYPSUM WALLBOARD ON SOFFIT AND UP VERTICAL FACE. VERIFY THICKNESS OF WALL BOARD WITH EXISTING INSTALLED. PAINT TO MATCH THE EXISTING FINISH.
2	REMOVE AND REPLACE DAMAGED, STAINED, OR MISSING CEILING TILES IN THIS AREA. INCLUDE THE REPLACEMENT OF 25% OF EXISTING CEILING TILES TO MATCH STYLE AND COLOR OF EXISTING ADJACENT TILES.
3	REINSTALL PORTION OF CEILING SYSTEMS REMOVED FOR NEW WORK ABOVE CEILING. REPLACE DAMAGED TILES WITH NEW TO MATCH EXISTING.
4	NEW TRANSLUCENT FIBERGLASS SANDWICH PANEL ASSEMBLY ATTACHED TO EXISTING STRUCTURAL FRAMING MEMBERS. REFINISH EXISTING STRUCTURE.
5	PATCH/REPAIR ACT CEILING WITH NEW TILE IN LOCATION OF PREVIOUS.
6	NEW ROOF HATCH INSTALLED AT PREVIOUS LOCATION. REFER TO DETAIL D/A502.
7	ROOF JOIST HAVE SURFACE RUST, CONTACT ARCHITECT WHEN SPACE IS AVAILABLE FOR REVIEW, REMOVE RUST, APPLY RUST INHIBITOR, PAINT.
8	INSTALL NEW METAL DECK WHERE SKYLIGHT HAS BEEN REMOVED, REFER TO SHEET A504 FOR DECK REPAIR.
9	INSTALL NEW GLAZING IN KIND IN EXISTING METAL STUD FRAMING FOR EXHIBIT BELOW.

REFLECTED CEILING PLAN GENERAL NOTE

A. EXISTING STRUCTURAL CONDITIONS ARE BASED ON AVAILABLE RECORD INFORMATION. THE CONTRACTOR SHALL VERIFY FIELD CONDITIONS AFFECTING THE WORK AND NOTIFY THE ARCHITECT OF DISCREPANCIES PRIOR TO PROCEEDING WITH AFFECTED WORK.

B. PREPARE ALL REPLACED GYPSUM SURFACES FOR NEW PAINT (COLOR TO MATCH EXISTING ADJACENT TO REMAIN).



GH2 ARCHITECTS
21 NORTH GREENWOOD AVE - SUITE 200, TULSA, OKLAHOMA

TULSA ZOO ROOF REPLACEMENT
6421 E 36th St N, Tulsa, OK 74115

PROJECT NUMBER: CP24-21

CITY ARCHITECTURAL BUILDING SERVICES

DRAWN	B. RAMOS	PROJ. MGR.		9/26
DESIGNED		CDS MGR.		9/26
SURVEY		FIELD MGR.		9/26
		CITY ENG.		9/26

ISSUE BLOCK

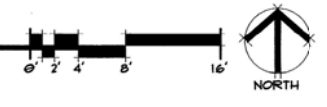
BY: DATE:

SHEET NAME: SOUTHWEST DESERTS REFLECTED CEILING PLAN

SHEET NO: A122

SHEET 12 OF 20

A SOUTHWEST DESERTS - REFLECTED CEILING PLAN
1/8" = 1'-0"



8/22/2026 8:40:03 AM

REFLECTED CEILING PLAN LEGEND

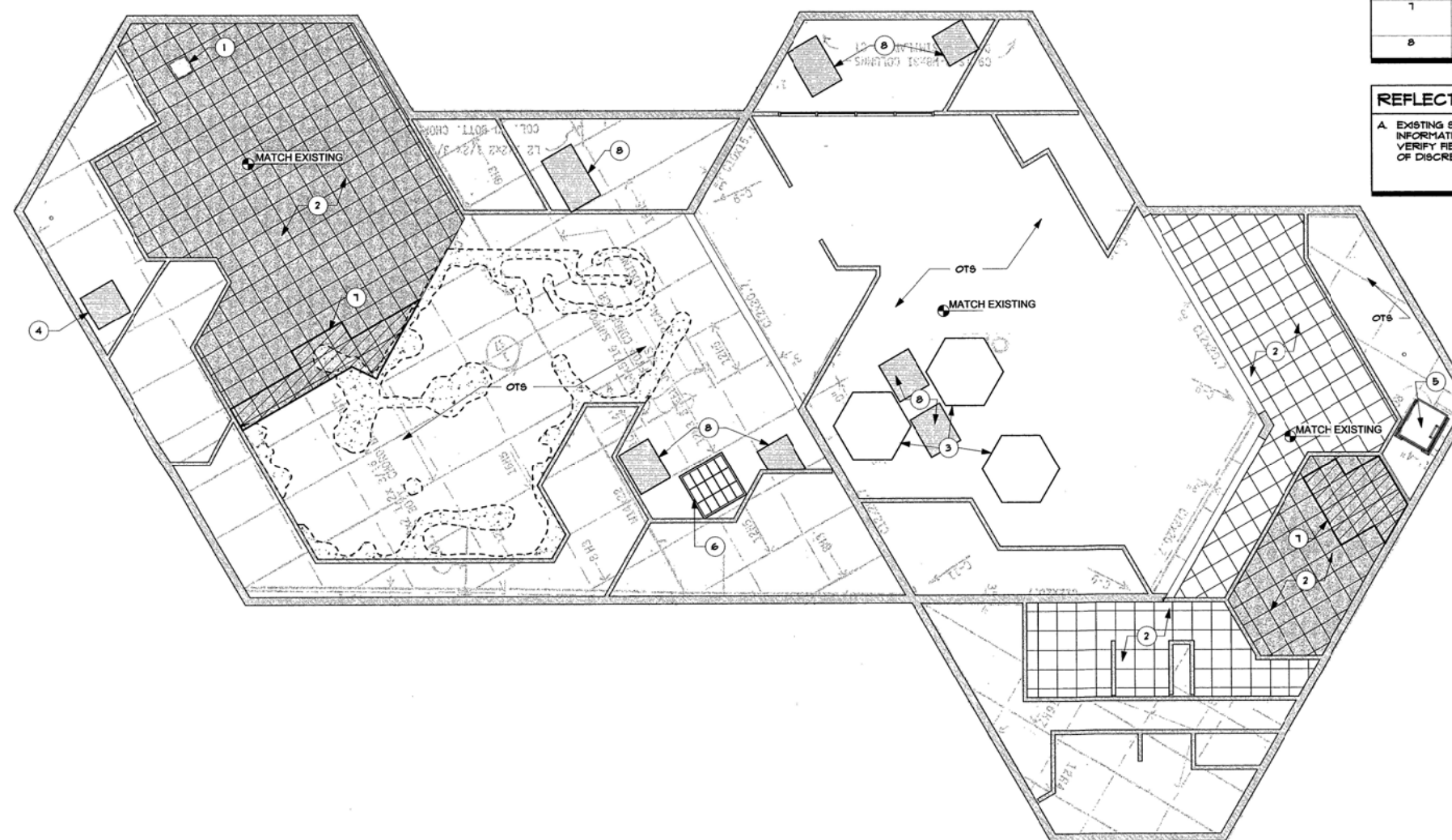
	2X2 ACOUSTIC CEILING TILE (ACT) PAINTED BLACK		10' - 0" AFF	CEILING HEIGHT
	2X2 ACOUSTIC CEILING TILE (ACT)		ALIGN	ALIGN FINISHED SURFACES
	NEW GYPSUM BOARD CEILING		OTS	OPEN TO STRUCTURE
	EXISTING WALLS			NEW TRANSLUCENT PANEL SYSTEM
	EXISTING BULKHEAD			PROVIDE NEW CEILING TILE FROM REMOVED SKYLIGHT LOCATION
	NEW METAL DECK			

REFLECTED CEILING PLAN EASTERN FOREST

NUMBER	DESCRIPTION
1	PATCH/REPAIR ACT CEILING WITH NEW TILE IN LOCATION OF PREVIOUS
2	REMOVE AND REPLACE DAMAGED, STAINED, OR MISSING CEILING TILES IN THIS AREA. INCLUDE THE REPLACEMENT OF 25% OF EXISTING CEILING TILES TO MATCH STYLE AND COLOR OF EXISTING ADJACENT TILES.
3	NEW HEXAGONAL CURB MOUNTED SKYLIGHTS. COORDINATE CURB HEIGHT WITH NEW ROOF INSULATION TO MAINTAIN 6" CLEARANCE MINIMUM ABOVE TOP OF ROOF. COORDINATE SKYLIGHT WITH EXISTING DECKING AND INTERIOR FINISHES AS REQUIRED.
4	INSTALL NEW METAL DECK WHERE ROOF HATCH HAS BEEN REMOVED, REFER TO SHEET A5-04 FOR DECK REPAIR.
5	NEW ROOF HATCH INSTALLED AT PREVIOUS LOCATION REFER TO DETAIL D1A502
6	NEW CURB MOUNTED 5'-0" SQUARE SKYLIGHTS. COORDINATE CURB HEIGHT WITH BU ROOF INSULATION TO MAINTAIN 6" CLEARANCE MINIMUM ABOVE TOP OF ROOF. COORDINATE SKYLIGHT WITH EXISTING DECKING AND INTERIOR FINISHES AS REQUIRED, FIELD VERIFY FINAL LOCATION WITH ROOF STRUCTURE AND ZOO PERSONNEL.
7	REINSTALL PORTION OF CEILING SYSTEMS REMOVED FOR NEW WORK ABOVE CEILING. REPLACE DAMAGED TILES WITH NEW TO MATCH EXISTING.
8	INSTALL NEW METAL DECK WHERE SKYLIGHT HAS BEEN REMOVED, REFER TO SHEET A5-04 FOR DECK REPAIR.

REFLECTED CEILING PLAN GENERAL NOTE

A. EXISTING STRUCTURAL CONDITIONS ARE BASED ON AVAILABLE RECORD INFORMATION AND HAVE NOT BEEN FULLY VERIFIED. THE CONTRACTOR SHALL VERIFY FIELD CONDITIONS AFFECTING THE WORK AND NOTIFY THE ARCHITECT OF DISCREPANCIES PRIOR TO PROCEEDING WITH AFFECTED WORK.

**GH2 ARCHITECTS**

21 NORTH GREENWOOD AVE - SUITE 200, TULSA, OKLAHOMA

TULSA ZOO ROOF REPLACEMENT

6421 E 36th St N, Tulsa, OK 74115

PROJECT NUMBER: CP24-21



CITY ARCHITECTURAL BUILDING SERVICES

DRAWN	B. RAMOS	PROJ. MGR.	<i>BY</i>	<i>9/21</i>
DESIGNED		CDS MGR.	<i>BY</i>	<i>9/21</i>
SURVEY		FIELD MGR.	<i>BY</i>	<i>9/21</i>
		CITY ENG.	<i>BY</i>	<i>9/21</i>

[illegible]

SHEET NAME:
**EASTERN FORESTS REFLECTED
CEILING PLAN**

SHEET NO:
A123

SHEET 13 OF 20

A EASTERN FORESTS - REFLECTED CEILING PLAN

 $1/8" = 1'-0"$

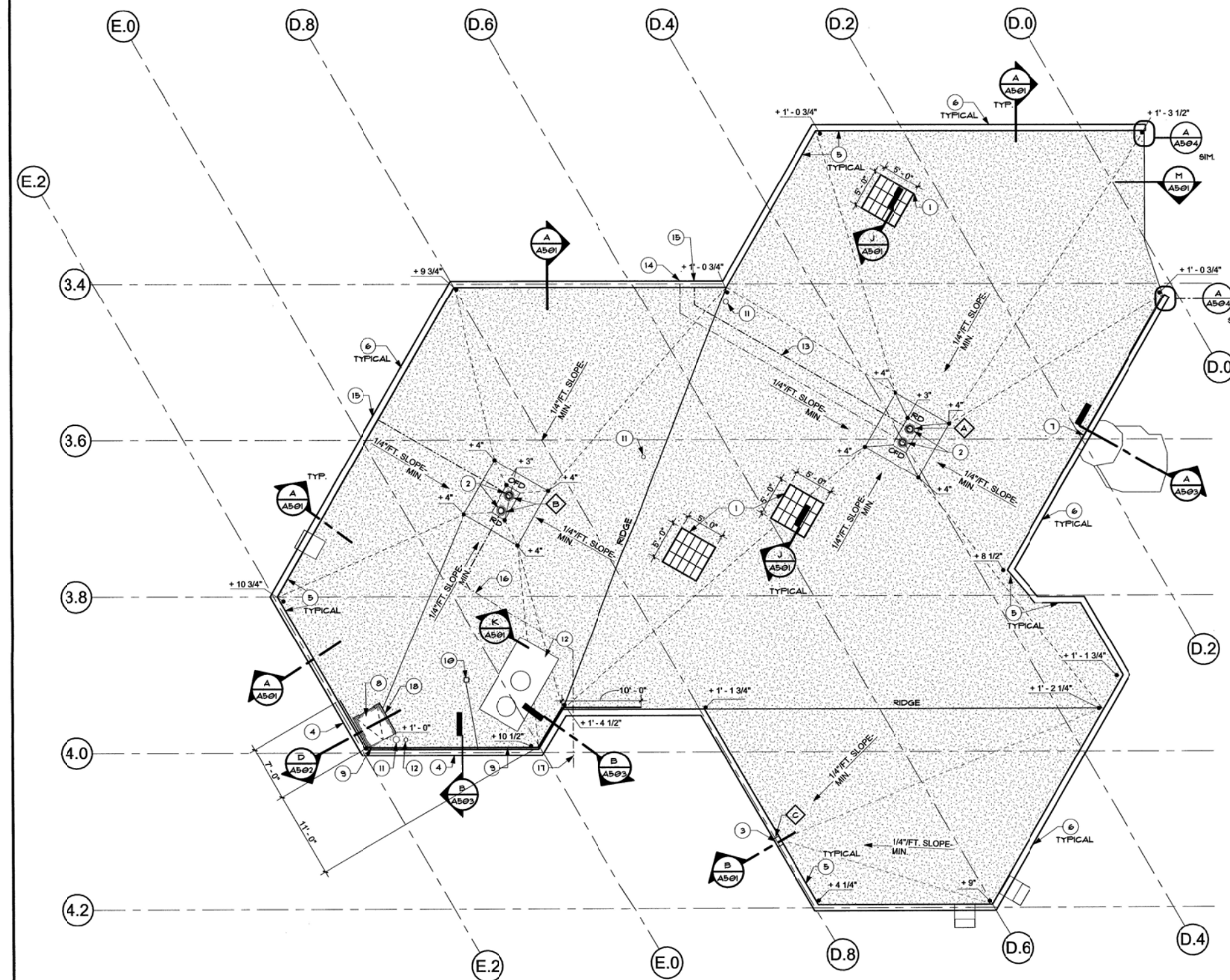
CONSTRUCTION DOCUMENTS GH2 PROJECT #: 20210085.05

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1/22/2026 8:40:06 AM

ARCTIC TUNDRA ROOF PLAN

1/8" = 1'-0"



NEW CONSTRUCTION KEYNOTES ARCTIC TUNDRA

NUMBER	DESCRIPTION
1	INSTALL NEW CURB MOUNTED SQUARE 5'-0\"/>
2	INSTALL ROOF DRAIN AND OVERFLOW DRAIN. REFER TO DETAIL C/A502
3	INSTALL NEW THROUGH WALL SCUPPER FLASHING AT EXISTING SCUPPER OPENING. INSTALL CONDUCTOR HEADS AND DOWNSPOUTS REFER TO DETAIL B/A501
4	INFILL SCUPPER TO MATCH ADJACENT WALL CONSTRUCTION AND MATCH EXTERIOR WALL PANEL MATERIAL AND COLOR.
5	ROOF MEMBRANE TO WRAP UP AND OVER BACK SIDE OF PARAPET WALLS. REFER TO DETAIL A/A501
6	INSTALL NEW PARAPET METAL COPING FLASHING. REFER TO DETAIL A/A501
7	INSTALL NEW PARAPET METAL COPING WHERE BOULDER HAS BEEN REMOVED. ZOO TO REPAINT BACK OF FAUX BOULDER. REFER TO DETAIL A/A503
8	INSTALL NEW ROOF HATCH, CURB, LADDER EXTENSION AND SAFETY RAILING. REFER TO DETAIL D/A502
9	INSTALL PIPE AND TUBE RAILING, PAINT TO MATCH BUILDING COLOR SCHEME REFER TO C/A503.
10	INSTALL NEW ROOF HYDRANT, TIE INTO EXISTING PLUMBING REFER TO DETAIL D/A503
11	EXTEND FLUE TO INSTALL NEW FLASHING. REFER TO E/A503
12	EXTEND VENT THROUGH ROOF INSTALL NEW FLASHING. REFER TO K/A501
13	NEW 4\"/>
14	NEW SPLASH BLOCK AND DRAIN TERMINATION ADJACENT TO EXISTING. MATCH EXISTING TYPE AND INSTALLATION.
15	DISCHARGE TO GRADE. MATCH EXISTING DISCHARGE POINTS ELSEWHERE ON BUILDING.
16	EXTEND NEW 4\"/>
17	EXISTING UNDERGROUND PRIMARY DRAIN SYSTEM THROUGH RETAINING WALL TO GRADE, TO REMAIN
18	INSTALL NEW ROOF HATCH GUARDRAIL FENCE. BASIS OF DESIGN- KATTSafe KG3636 OR APPROVED EQUAL PROVIDE CUSTOM POWDER-COAT FINISH IN COLOR TO MATCH BUILDING COLOR SCHEME.

ROOF LEGEND

	NEW TPO ROOFING SYSTEM OVER TAPERED INSULATION BOARD
	RIDGE LINE
	VALLEY LINE
	INDICATES THE VERTICAL THICKNESS OF TAPERED INSULATION ABOVE THE EXISTING METAL ROOF DECK SURFACE
	ROOF DRAIN AND OVERFLOW DRAIN
	NEW DRAIN LINE
	EXISTING DRAIN LINE
	NEW SCUPPER LOCATION, REFER TO PLUMBING CALCULATIONS FOR SIZING
	SPEAKER BY OTHERS

PLUMBING CALCULATIONS

	DRAIN PRIMARY: 175 GPM/ 4\"/>
	DRAIN PRIMARY: 31 GPM/4\"/>
	OVERFLOW SCUPPER: 111 GPM/ 14\"/>

ROOF PLAN GENERAL NOTES

- ALL ROOFING SURFACES TO SLOPE 1/4 INCH PER FOOT MINIMUM, UNLESS NOTED OTHERWISE.
- PROVIDE CURB HEIGHTS FOR EQUIPMENT AND ROOF HATCHES AS REQUIRED TO MAINTAIN 8 INCHES MINIMUM ABOVE FINISHED ROOF SURFACE, UNLESS MORE STRINGENT CONDITIONS ARE INDICATED OR REQUIRED BY ROOF OR EQUIPMENT MANUFACTURER.
- PROVIDE WALKWAY PROTECTION, AN ADDITIONAL LAYER OF TPO MEMBRANE ADHERED TO ROOF MEMBRANE, TO MAJOR MECHANICAL, ELECTRICAL, AND PLUMBING EQUIPMENT AS REQUIRED FOR SERVICE ACCESS. WALKWAY PROTECTION MAY NOT BE INDICATED, BUT IF INDICATED IT'S A GENERAL LAYOUT AND MAY NOT SHOW ALL FINAL LOCATIONS OF ALL EQUIPMENT. REF. SPECIFICATIONS.
- ALL ROOFTOP MECHANICAL, ELECTRICAL, AND / OR PLUMBING EQUIPMENT IS SHOWN FOR INFORMATIONAL PURPOSES ONLY.
- INSTALL ROOFING IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
- INSTALL GUTTERS AND DOWNSPOUTS IN ACCORDANCE WITH SHACMA GUIDELINES, 1TH EDITION, 2012
- PIPE AND VENT PENETRATIONS: PROVIDE PRE-MOLDED PIPE SLEEVES ONLY, FOR ALL PENETRATIONS, AS RECOMMENDED BY MANUFACTURER FOR SIZE, TYPE AND APPLICATION. PITCH FANS ARE NOT ALLOWED.
- THE SLOPES INDICATED ON THE ROOF PLAN REPRESENTS THE FINAL SLOPE OF THE ROOF. FIELD VERIFY THE EXISTING SLOPE OF THE ROOF STRUCTURE.
- ALL SERVICEABLE ROOF TOP EQUIPMENT TO BE INSTALLED MORE THAN 10' FROM ROOF EDGES. CONTRACTOR RESPONSIBLE FOR FALL PROTECTION ENGINEERING IF CLEARANCE IS NOT MAINTAINED.
- TAPERED INSULATION SHALL BE INSTALLED TO PROVIDE A UNIFORM SLOPE, VARYING IN THICKNESS AT PARAPET WALLS AND ALONG RIDGE LINES. THICKNESS TRANSITIONS SHALL OCCUR EVENLY BETWEEN DESIGNATED THICKNESS POINTS INDICATED ON THE DRAWINGS.
- CONTRACTOR TO VERIFY SIZE OF EXISTING SCUPPERS TO REMAIN AND BE REUSED, AND VERIFY VERTICAL DIMENSION FROM TOP OF EXISTING METAL ROOF DECK TO BOTTOM OF SCUPPER OPENING. DESIGN ASSUMES SCUPPER BOTTOM IS 2\"/>
- ADD CRICKETS AROUND MECHANICAL EQUIPMENT, SKYLIGHTS, ETC. AS REQUIRED



GH2 ARCHITECTS

21 NORTH GREENWOOD AVE - SUITE 200, TULSA, OKLAHOMA

TULSA ZOO ROOF REPLACEMENT

6421 E 36th St N, Tulsa, OK 74115

PROJECT NUMBER: CP24-21



CITY ARCHITECTURAL BUILDING SERVICES

DRAWN	B. RAMOS	PROJ. MGR.		DATE	9/26
DESIGNED		CDS MGR.			9/26
SURVEY		FIELD MGR.			9/26
		CITY ENG.			9/26

ISSUE BLOCK	BY:	DATE:

SHEET NAME:	ARCTIC TUNDRA ROOF PLAN
SHEET NO:	A141
	SHEET 14 OF 20

ROOF LEGEND

NEW TPO ROOFING SYSTEM OVER TAPERED INSULATION BOARD

RIDGE LINE

VALLEY LINE

+0'-00" INDICATES THE VERTICAL THICKNESS OF TAPERED INSULATION ABOVE THE EXISTING METAL ROOF DECK SURFACE

RD OFD ROOF DRAIN AND OVERFLOW DRAIN

NEW DRAIN LINE

EXISTING DRAIN LINE

[] NEW SCUPPER LOCATION, REFER TO PLUMBING CALCULATIONS FOR SIZING

SPEAKER BY OTHERS

NEW CONSTRUCTION KEYNOTES SOUTHWEST DESERTS

NUMBER	KEYNOTE TEXT
1	INSTALL NEW TRANSLUCENT FIBERGLASS SANDWICH PANEL SKYROOF SYSTEM ATTACHED TO EXISTING ALUMINUM STRUCTURAL FRAMING MEMBERS. REFER TO SHEET A501 FOR DETAILS
2	ROOF MEMBRANE TO WRAP UP AND OVER BACK SIDE OF PARAPET WALLS. REFER TO DETAIL A/A501
3	INSTALL NEW GUTTER AND DOWNSPOUT. LOCATE NEW DOWNSPOUT IN THE SAME LOCATION AS EXISTING DOWNSPOUT. REFER TO DETAIL A/A502
4	INSTALL NEW ROOF DRAIN AND OVER FLOW DRAIN. REFER TO DETAIL C/A502
5	INSTALL NEW ROOF HATCH, CURB, AND LADDER EXTENSION REFER TO DETAIL D/A502
6	INSTALL NEW OVER FLOW DRAIN FOR MAIN OUTFLOW SCUPPER, REFER TO DETAIL B/A502
7	INSTALL NEW ALUMINUM LADDERS. REFER TO DETAIL B/A503
8	INSTALL NEW THROUGH WALL SCUPPER FLASHING AT EXISTING SCUPPER OPENING. INSTALL CONDUCTOR HEADS AND DOWNSPOUTS REFER TO DETAIL B/A501
11	EXTEND FLUE TO INSTALL NEW FLASHING REFER TO E/A503
12	EXTEND VENT THROUGH ROOF INSTALL NEW FLASHING REFER TO K/A501
13	CUT IN REGLET 4" ABOVE ADJACENT PARAPET GAP, INSTALL PMMA COATING
14	INSTALL NEW PARAPET COPING FLASHING. REFER TO DETAIL A/A501
15	INSTALL NEW ROOF HATCH GUARDRAIL FENCE, BASIS OF DESIGN: KATTSAFE K63636 OR APPROVED EQUAL PROVIDE CUSTOM POWDER-COAT FINISH IN COLOR TO MATCH BUILDING COLOR SCHEME
16	INFILL SCUPPER TO MATCH ADJACENT WALL CONSTRUCTION AND MATCH EXTERIOR WALL PANEL MATERIAL AND COLOR
17	INSTALL NEW CONCRETE SPLASHBLOCK UNDERNEATH DOWNSPOUT LOCATION
18	INSTALL NEW SPLASH BLOCK AND DRAIN TERMINATION ADJACENT TO EXISTING. MATCH EXISTING TYPE AND INSTALLATION
19	INSTALL NEW 4" PRIMARY DRAIN LINE. INSTALL PARALLEL TO EXISTING DRAIN LINE
20	EXTEND NEW 6" OVERFLOW DRAIN LINE TO EXISTING AND CONNECT
21	EXTEND NEW 4" DRAIN LINE TO EXISTING AND CONNECT
22	EXTEND NEW 3" DRAIN LINE TO EXISTING AND CONNECT

ROOF PLAN GENERAL NOTES

A. ALL ROOFING SURFACES TO SLOPE 1/4 INCH PER FOOT MINIMUM, UNLESS NOTED OTHERWISE.

B. PROVIDE CURB HEIGHTS FOR EQUIPMENT AND ROOF HATCHES AS REQUIRED TO MAINTAIN 8 INCHES MINIMUM ABOVE FINISHED ROOF SURFACE, UNLESS MORE STRINGENT CONDITIONS ARE INDICATED OR REQUIRED BY ROOF OR EQUIPMENT MANUFACTURER.

C. PROVIDE WALKWAY PROTECTION, AN ADDITIONAL LAYER OF TPO MEMBRANE ADHERED TO ROOF MEMBRANE, TO MAJOR MECHANICAL, ELECTRICAL, AND PLUMBING EQUIPMENT AS REQUIRED FOR SERVICE ACCESS. WALKWAY PROTECTION MAY NOT BE INDICATED, BUT IF INDICATED IT'S A GENERAL LAYOUT AND MAY NOT SHOW ALL FINAL LOCATIONS OF ALL EQUIPMENT. REF: SPECIFICATIONS.

D. ALL ROOFTOP MECHANICAL, ELECTRICAL, AND / OR PLUMBING EQUIPMENT IS SHOWN FOR INFORMATIONAL PURPOSES ONLY.

E. INSTALL ROOFING IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

F. INSTALL GUTTERS AND DOWNSPOUTS IN ACCORDANCE WITH SMACNA GUIDELINES, 11TH EDITION, 2012

G. PIPE AND VENT PENETRATIONS: PROVIDE PRE-MOLDED PIPE SLEEVES ONLY. FOR ALL PENETRATIONS, AS RECOMMENDED BY MANUFACTURER FOR SIZE, TYPE AND APPLICATION. PITCH PANS ARE NOT ALLOWED.

H. THE SLOPES INDICATED ON THE ROOF PLAN REPRESENTS THE FINAL SLOPE OF THE ROOF. FIELD VERIFY THE EXISTING SLOPE OF THE ROOF STRUCTURE.

I. ALL SERVICEABLE ROOF TOP EQUIPMENT TO BE INSTALLED MORE THAN 10' FROM ROOF EDGES. CONTRACTOR RESPONSIBLE FOR FALL PROTECTION ENGINEERING IF CLEARANCE IS NOT MAINTAINED.

J. TAPERED INSULATION SHALL BE INSTALLED TO PROVIDE A UNIFORM SLOPE, VARYING IN THICKNESS AT PARAPET WALLS AND ALONG RIDGE LINES. THICKNESS TRANSITIONS SHALL OCCUR EVENLY BETWEEN DESIGNATED THICKNESS POINTS INDICATED ON THE DRAWINGS.

K. CONTRACTOR TO VERIFY SIZE OF EXISTING SCUPPERS TO REMAIN AND BE REUSED, AND VERIFY VERTICAL DIMENSION FROM TOP OF EXISTING METAL ROOF DECK TO BOTTOM OF SCUPPER OPENING. DESIGN ASSUMES SCUPPER BOTTOM IS 2" ABOVE EXISTING ROOF DECK. REPORT FIELD-VERIFIED DIMENSIONS TO ARCHITECT PRIOR TO THE START OF CONSTRUCTION.

L. ADD CRICKETS AROUND MECHANICAL EQUIPMENT, SKYLIGHTS, ETC. AS REQUIRED

PLUMBING CALCULATIONS

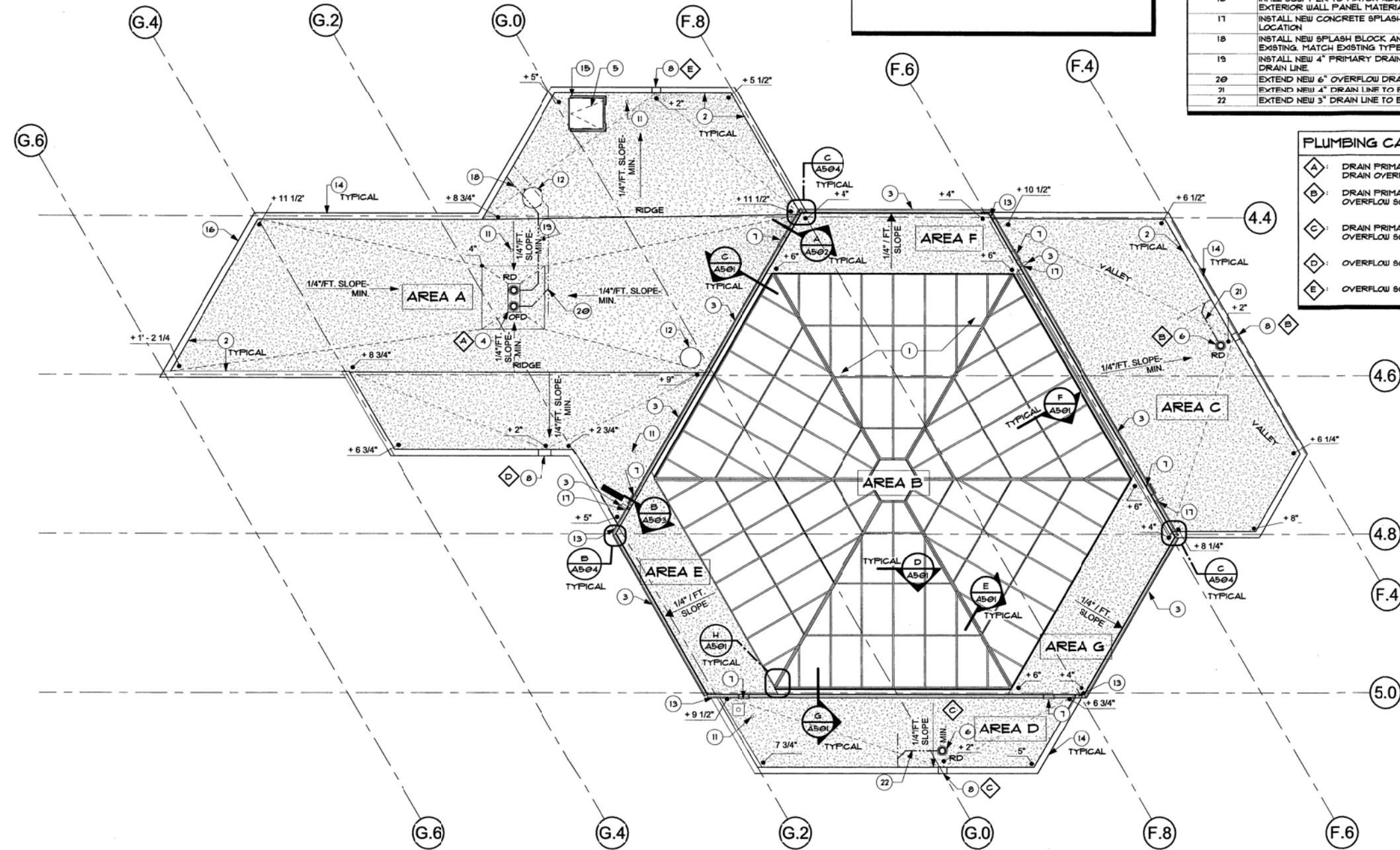
A: DRAIN PRIMARY: 84 GPM/4" OUTLET
DRAIN OVERFLOW: 214 GPM/16" OUTLET

B: DRAIN PRIMARY: 104 GPM/4" OUTLET
OVERFLOW SCUPPER: 265 GPM/32" WIDTH

C: DRAIN PRIMARY: 41 GPM/3" OUTLET
OVERFLOW SCUPPER: 113 GPM/16" OUTLET

D: OVERFLOW SCUPPER: 152 GPM/20" WIDTH

E: OVERFLOW SCUPPER: 60 GPM/18" WIDTH



A SOUTHWEST DESERTS ROOF PLAN
1/8" = 1'-0"



GH2 ARCHITECTS
21 NORTH GREENWOOD AVE - SUITE 200, TULSA, OKLAHOMA

TULSA ZOO ROOF REPLACEMENT

6421 E 36th St N, Tulsa, OK 74115

PROJECT NUMBER: CP24-21

CITY OF TULSA
CITY ARCHITECTURAL BUILDING SERVICES

DRAWN	B. RAMOS	PROJ. MGR.	9/16
DESIGNED		CDS MGR.	9/26
SURVEY		FIELD MGR.	9/26
		CITY ENG.	9/26

ISSUE BLOCK

BY: DATE:

SHEET NAME:
SOUTHWEST DESERTS ROOF PLAN

SHEET NO:
A142

SHEET 15 OF 20

ROOF LEGEND

- NEW TPO ROOFING SYSTEM OVER TAPERED INSULATION BOARD
- RIDGE LINE
- VALLEY LINE
- +0'-00" INDICATES THE VERTICAL THICKNESS OF TAPERED INSULATION ABOVE THE EXISTING METAL ROOF DECK SURFACE
- ROOF DRAIN AND OVERFLOW DRAIN
- RD OFD
- NEW DRAIN LINE
- EXISTING DRAIN LINE
- NEW SCUPPER LOCATION, REFER TO PLUMBING CALCULATIONS FOR SIZING
- SPEAKER BY OTHERS

NEW CONSTRUCTION KEYNOTES EASTERN FORESTS

NUMBER	DESCRIPTION
1	INSTALL NEW CURB-MOUNTED HEXAGONAL UNIT SKYLIGHTS AT EXISTING OPENINGS CREATED BY REMOVAL OF EXISTING SKYLIGHTS. FIELD VERIFY OPENING DIMENSIONS PRIOR TO FABRICATION AND COORDINATE FINAL SKYLIGHT SIZES ACCORDINGLY. REFER TO DETAIL J / A501
2	INSTALL NEW CURB MOUNTED SQUARED 5'-0" SKYLIGHTS. COORDINATE CURB HEIGHT WITH NEW ROOF INSULATION TO MAINTAIN 8" CLEARANCE MINIMUM ABOVE TOP OF ROOF. COORDINATE SKYLIGHT WITH EXISTING DECKING AND INTERIOR FINISHES AS REQUIRED AND ZOO PERSONNEL. REFER TO DETAIL J / A501 AND D / A504
3	ROOF MEMBRANE TO WRAP UP AND OVER BACK SIDE OF PARAPET WALLS. REFER TO DETAIL A / A501
4	INSTALL NEW PARAPET METAL COPING. REFER TO DETAIL A / A501
5	INFILL SCUPPER TO MATCH ADJACENT WALL CONSTRUCTION AND MATCH EXTERIOR WALL PANEL MATERIAL AND COLOR
6	INSTALL NEW THROUGH WALL SCUPPER FLASHING AT EXISTING SCUPPER OPENING. INSTALL CONDUCTOR HEADS AND DOWNSPOUTS REFER TO DETAIL B / A501
7	INSTALL NEW ALUMINUM LADDERS. REFER TO DETAIL B / A503
8	INSTALL NEW ROOF DRAIN AND OVER FLOW DRAIN. REFER TO DETAILS C / A502
9	INSTALL NEW CONCRETE SPLASHBLOCK UNDERNEATH DOWNSPOUT LOCATION
10	INSTALL NEW GUTTER AND DOWNSPOUT. LOCATE NEW DOWNSPOUT IN THE SAME LOCATION AS EXISTING DOWNSPOUT. REFER TO DETAIL A / A502
11	EXTEND VENT THROUGH ROOF TO INSTALL NEW FLASHING. REFER TO DETAIL E / A503
12	EXTEND VENT WITH TURBINE TO INSTALL NEW FLASHING. REFER TO DETAIL K / A501
13	INSTALL PIPE AND TUBE RAILING. PAINT TO MATCH BUILDING COLOR SCHEME. REFER TO DETAIL C / A503
14	INSTALL NEW ROOF HATCH, CURB, LADDER EXTENSION AND SAFETY RAILING. REFER TO DETAIL D / A502
15	TRIM BACK TREE LIMBS OVERHANGING ROOF
16	CUT IN REGLET 4" ABOVE ADJACENT PARAPET CAP. INSTALL PMMA COATING
17	OWNER (Z00) TO REMOVE AND REINSTALL SCREEN ENCLOSURE AND ASSOCIATED METAL BRACING. CONTRACTOR TO COORDINATE AS REQUIRED.
18	EXTEND NEW 4" OVERFLOW DRAIN TO EXISTING 6" AND CONNECT
19	INSTALL NEW 6" PRIMARY DRAIN PARALLEL TO EXISTING
20	INSTALL NEW DRAIN TERMINATION ADJACENT TO EXISTING. MATCH EXISTING TYPE AND INSTALLATION
21	INSTALL NEW 3" PRIMARY DRAIN LINE AND 4" OVERFLOW DRAIN LINE
22	DISCHARGE TO GRADE. MATCH EXISTING DISCHARGE POINTS ELSEWHERE ON BUILDING
23	INSTALL NEW 3" PRIMARY DRAIN LINE. INSTALL PARALLEL TO EXISTING DRAIN LINE
24	INSTALL NEW ROOF HYDRANT, TIE INTO EXISTING PLUMBING. REFER TO DETAIL D / A503
25	INSTALL NEW ROOF HATCH GUARDRAIL FENCE. BASIS OF DESIGN- KATSAFE KG3636 OR APPROVED EQUAL

PLUMBING CALCULATIONS

A	DRAIN PRIMARY: 30 GPM/4" OUTLET
A	DRAIN OVERFLOW: 225 GPM/4" OUTLET
B	DRAIN PRIMARY: 36 GPM/3" OUTLET
B	DRAIN OVERFLOW: 32 GPM/4" OUTLET
C	DRAIN PRIMARY: 38 GPM/3" OUTLET
C	DRAIN OVERFLOW: 36 GPM/4" OUTLET
D	OVERFLOW SCUPPER: 14 GPM/3" WIDTH
E	OVERFLOW SCUPPER: 248 GPM/30" WIDTH
F	OVERFLOW SCUPPER: 131 GPM/16" WIDTH

ROOF PLAN GENERAL NOTES

- A. ALL ROOFING SURFACES TO SLOPE 1/4 INCH PER FOOT MINIMUM, UNLESS NOTED OTHERWISE.
- B. PROVIDE CURB HEIGHTS FOR EQUIPMENT AND ROOF HATCHES AS REQUIRED TO MAINTAIN 8 INCHES MINIMUM ABOVE FINISHED ROOF SURFACE, UNLESS MORE STRINGENT CONDITIONS ARE INDICATED OR REQUIRED BY ROOF OR EQUIPMENT MANUFACTURER.
- C. PROVIDE WALKWAY PROTECTION, AN ADDITIONAL LAYER OF TPO MEMBRANE ADHERED TO ROOF MEMBRANE, TO MAJOR MECHANICAL, ELECTRICAL, AND PLUMBING EQUIPMENT AS REQUIRED FOR SERVICE ACCESS. WALKWAY PROTECTION MAY NOT BE INDICATED, BUT IF INDICATED IT'S A GENERAL LAYOUT AND MAY NOT SHOW ALL FINAL LOCATIONS OF ALL EQUIPMENT. REF: SPECIFICATIONS.
- D. ALL ROOFTOP MECHANICAL, ELECTRICAL, AND / OR PLUMBING EQUIPMENT IS SHOWN FOR INFORMATIONAL PURPOSES ONLY.
- E. INSTALL ROOFING IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
- F. INSTALL GUTTERS AND DOWNSPOUTS IN ACCORDANCE WITH SMACNA GUIDELINES, 11TH EDITION, 2012
- G. PIPE AND VENT PENETRATIONS: PROVIDE PRE-MOLDED PIPE SLEEVES ONLY, FOR ALL PENETRATIONS, AS RECOMMENDED BY MANUFACTURER FOR SIZE, TYPE AND APPLICATION. FITCH FANS ARE NOT ALLOWED.
- H. THE SLOPES INDICATED ON THE ROOF PLAN REPRESENTS THE FINAL SLOPE OF THE ROOF. FIELD VERIFY THE EXISTING SLOPE OF THE ROOF STRUCTURE.
- I. ALL SERVICEABLE ROOF TOP EQUIPMENT TO BE INSTALLED MORE THAN 10' FROM ROOF EDGES. CONTRACTOR RESPONSIBLE FOR FALL PROTECTION ENGINEERING IF CLEARANCE IS NOT MAINTAINED.
- J. TAPERED INSULATION SHALL BE INSTALLED TO PROVIDE A UNIFORM SLOPE, VARYING IN THICKNESS AT PARAPET WALLS AND ALONG RIDGE LINES. THICKNESS TRANSITIONS SHALL OCCUR EVENLY BETWEEN DESIGNATED THICKNESS POINTS INDICATED ON THE DRAWINGS.
- K. CONTRACTOR TO VERIFY SIZE OF EXISTING SCUPPERS TO REMAIN AND BE REUSED, AND VERIFY VERTICAL DIMENSION FROM TOP OF EXISTING METAL ROOF DECK TO BOTTOM OF SCUPPER OPENING. DESIGN ASSUMES SCUPPER BOTTOM IS 2" ABOVE EXISTING ROOF DECK. REPORT FIELD-VERIFIED DIMENSIONS TO ARCHITECT PRIOR TO THE START OF CONSTRUCTION.
- L. ADD CRICKETS AROUND MECHANICAL EQUIPMENT, SKYLIGHTS, ETC. AS REQUIRED.



GH2 ARCHITECTS

21 NORTH GREENWOOD AVE - SUITE 200, TULSA, OKLAHOMA

TULSA ZOO ROOF REPLACEMENT

6421 E 36th St N, Tulsa, OK 74115

PROJECT NUMBER: CP24-21



CITY ARCHITECTURAL BUILDING SERVICES

DRAWN	B. RAMOS	PROJ. MGR.	WJ	9/26
DESIGNED		CDS MGR.	WJ	9/26
SURVEY		FIELD MGR.	ZZM	9/26
		CITY ENG.	WJ	9/26

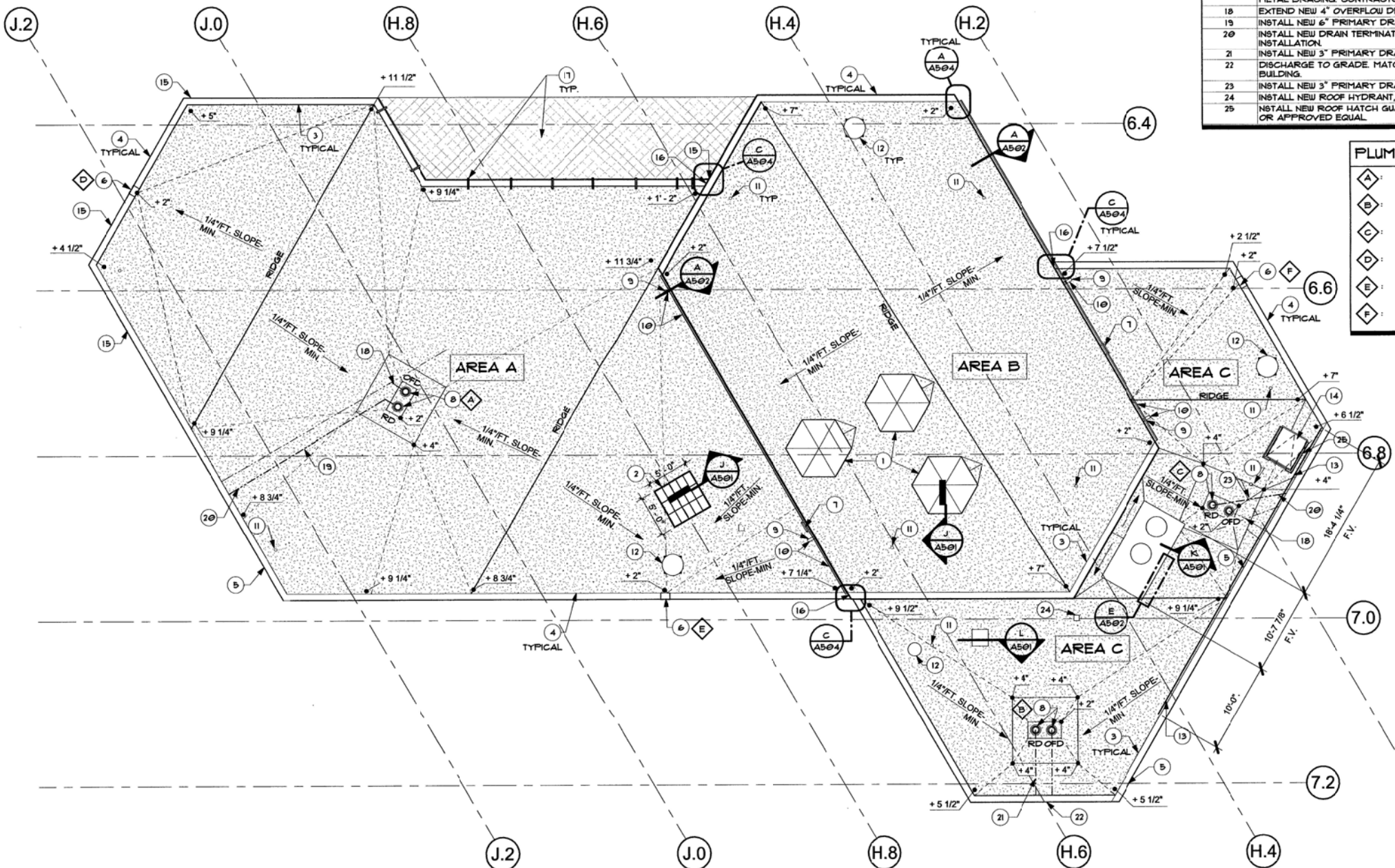
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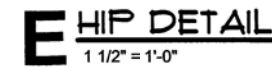
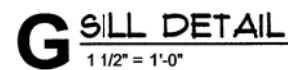
EASTERN FORESTS ROOF PLAN

SHEET NO:

A143

SHEET 16 OF 20





21 NORTH GREENWOOD AVE - SUITE 200, TULSA, OKLAHOMA

TULSA ZOO ROOF REPLACEMENT

6421 E 36th St N, Tulsa, OK 74115

PROJECT NUMBER: CP24-21



CITY ARCHITECTURAL BUILDING SERVICES

DRAWN	B. RAMOS	PROJ. MGR.	MY	9/14/01
DESIGNED		CDS MGR.	EW	9/12/01
SURVEY		FIELD MGR.	IZM	9/14/01
		CITY ENG.	BB	9/20/01

ISSUE BLOCK	BY:	DATE:
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SHEET NAME: _____

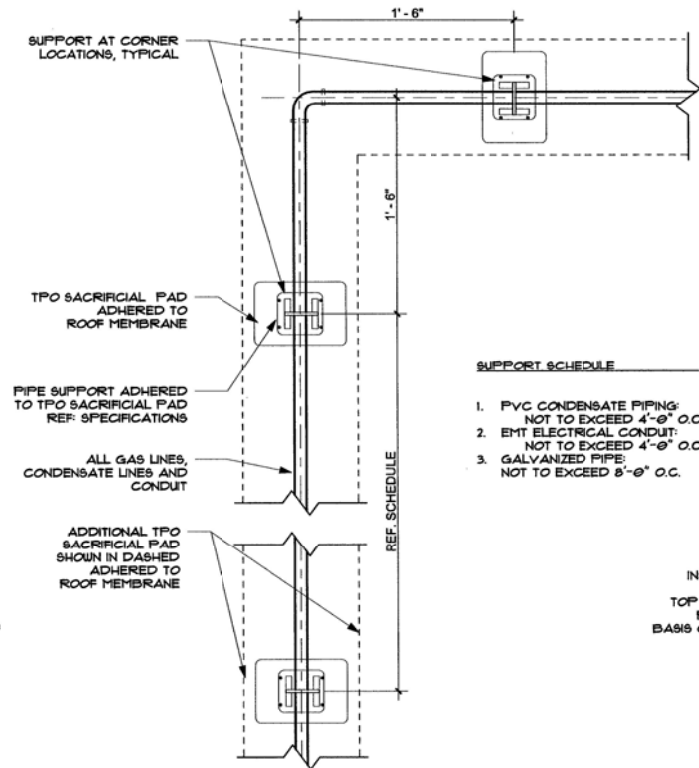
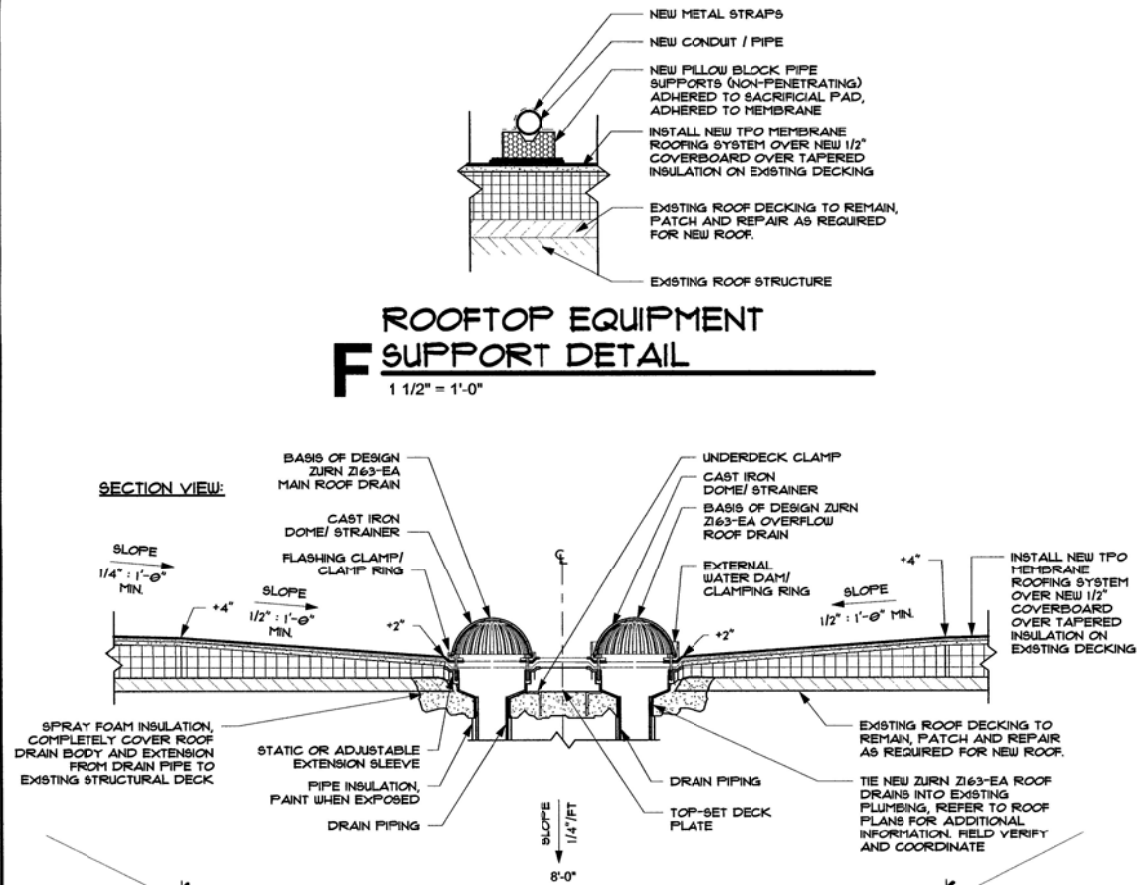
DETAILS

SHEET NO. _____

A501

ROOFTOP EQUIPMENT F SUPPORT DETAIL

1 1/2" = 1'-0"

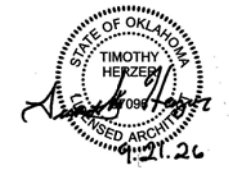
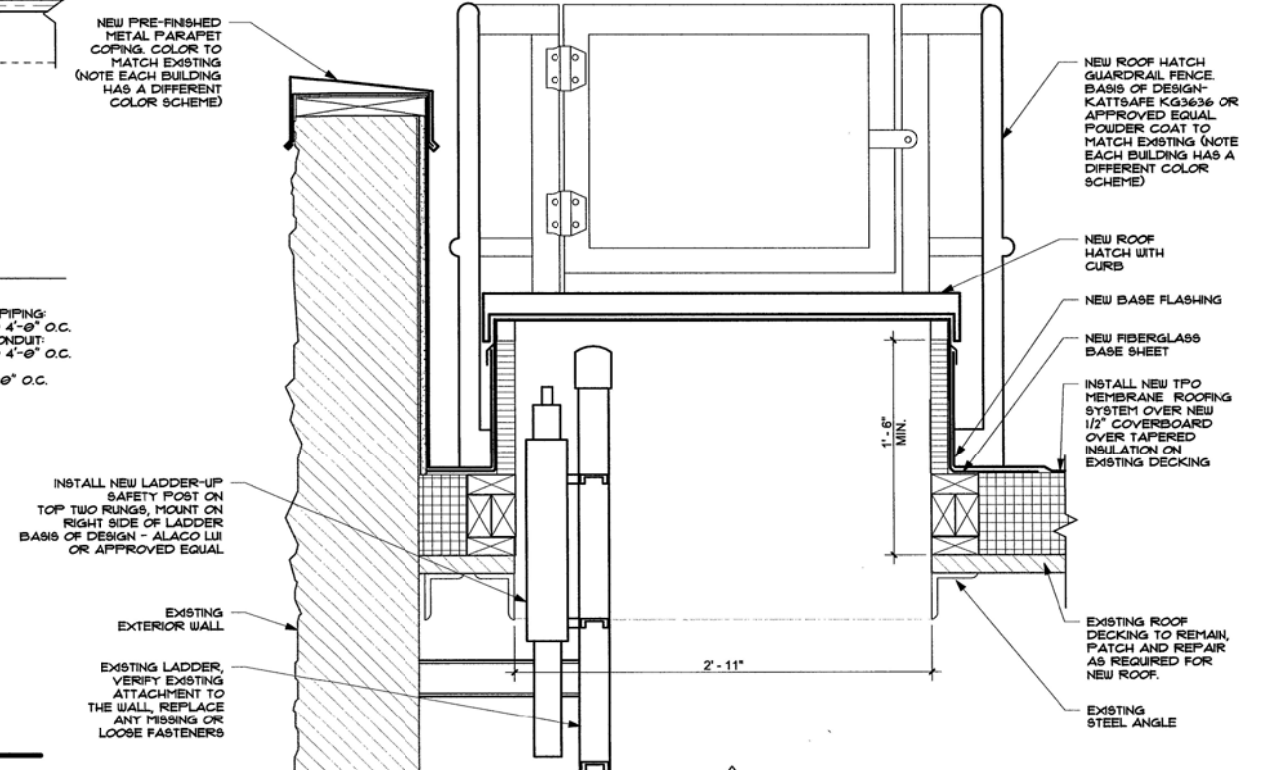


E SUPPORT DETAIL

1 1/2" = 1'-0"

D LADDER HATCH

1 1/2" = 1'-0"



GH2 ARCHITECTS

21 NORTH GREENWOOD AVE - SUITE 200, TULSA, OKLAHOMA

TULSA ZOO ROOF REPLACEMENT

6421 E 36th St N, Tulsa, OK 74115

PROJECT NUMBER: CP24-21



CITY ARCHITECTURAL BUILDING SERVICES

DRAWN	B. RAMOS	PROJ. MGR.	W. J. 9/26
DESIGNED		CDS MGR.	W. J. 9/26
SURVEY		FIELD MGR.	W. J. 9/26
		CITY ENG.	W. J. 9/26

ISSUE BLOCK BY: DATE:

SHEET NAME:
DETAILS

SHEET NO:
A502

SHEET 18 OF 20

CONSTRUCTION DOCUMENTS GH2 PROJECT #20210085.05

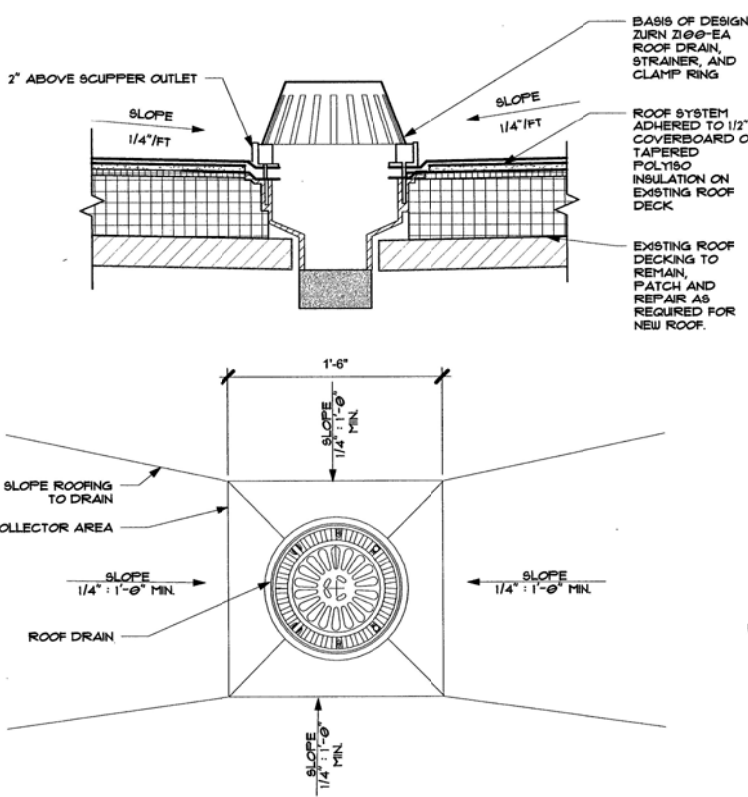
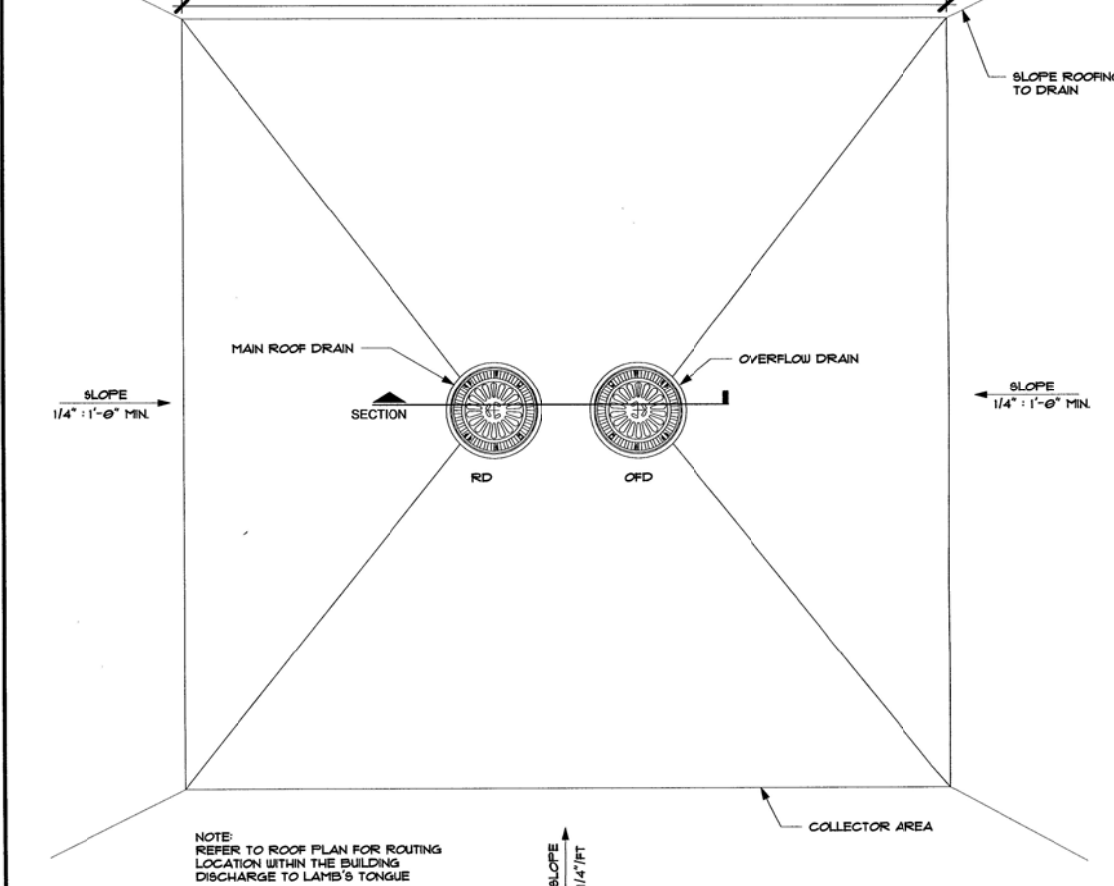
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C MAIN & OVERFLOW ROOF DRAIN ASSEMBLY

1" = 1'-0"

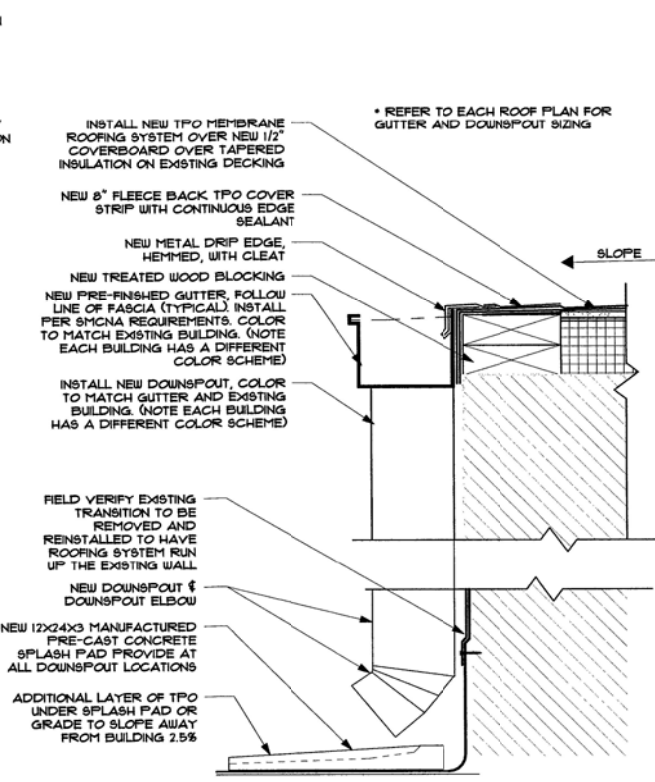
B OVERFLOW ROOF DRAIN

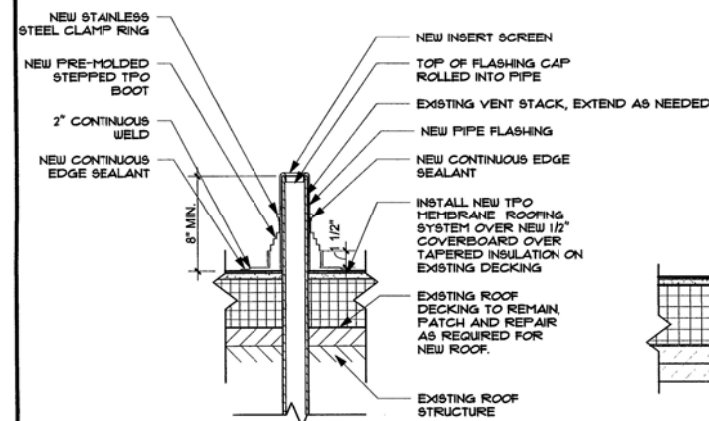
1 1/2" = 1'-0"



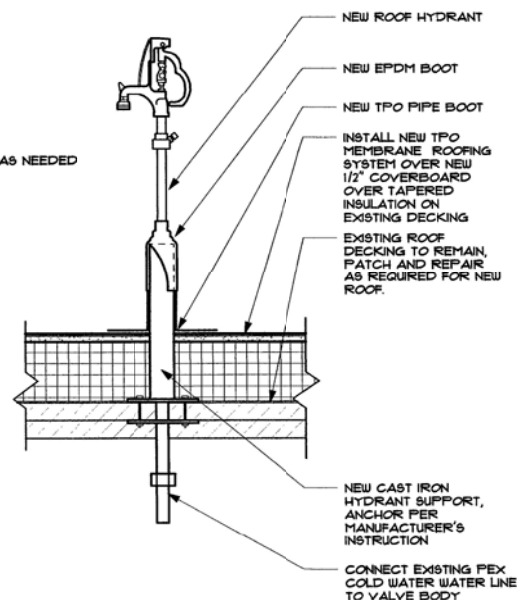
A GUTTER & DOWNSPOUT DETAIL

1 1/2" = 1'-0"

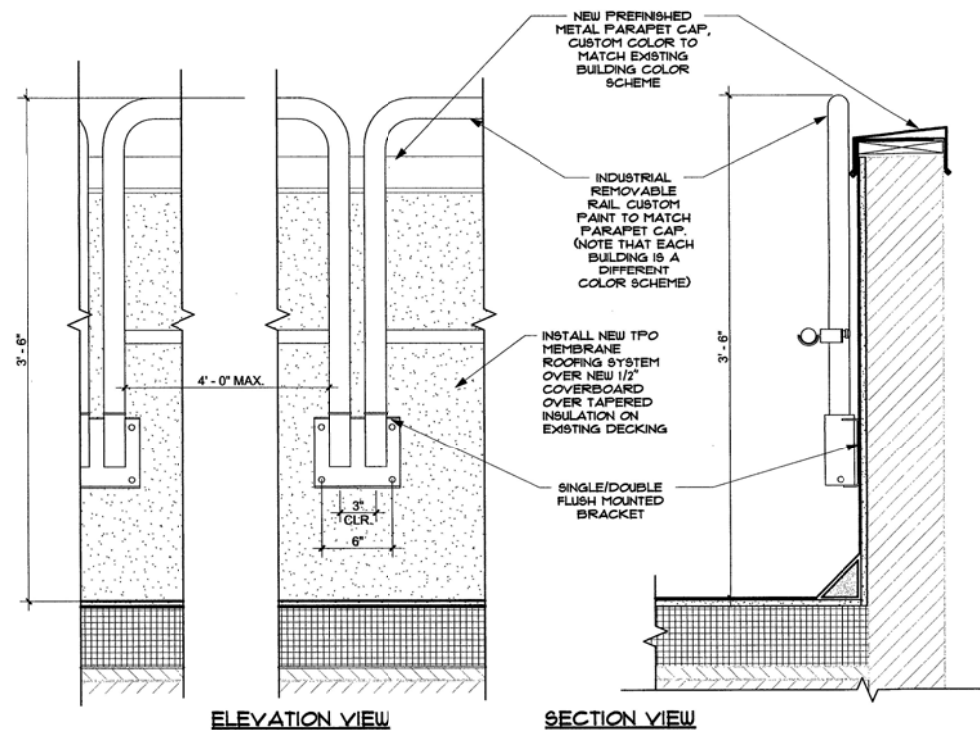




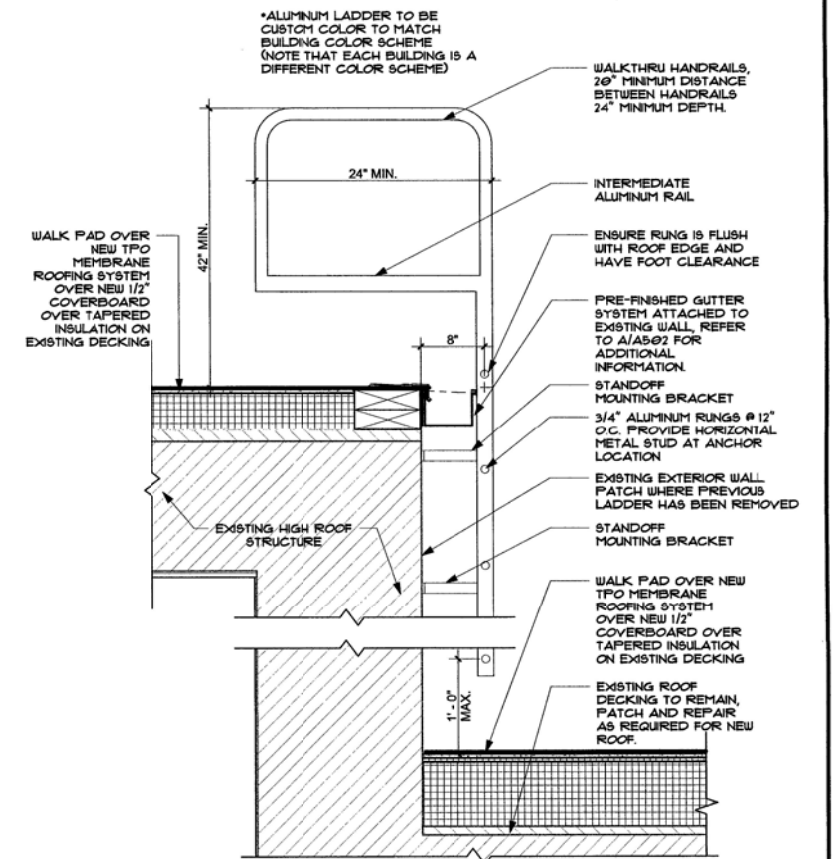
E ROOF PENETRATION DETAIL
1 1/2" = 1'-0"



D ROOF HYDRANT
1 1/2" = 1'-0"



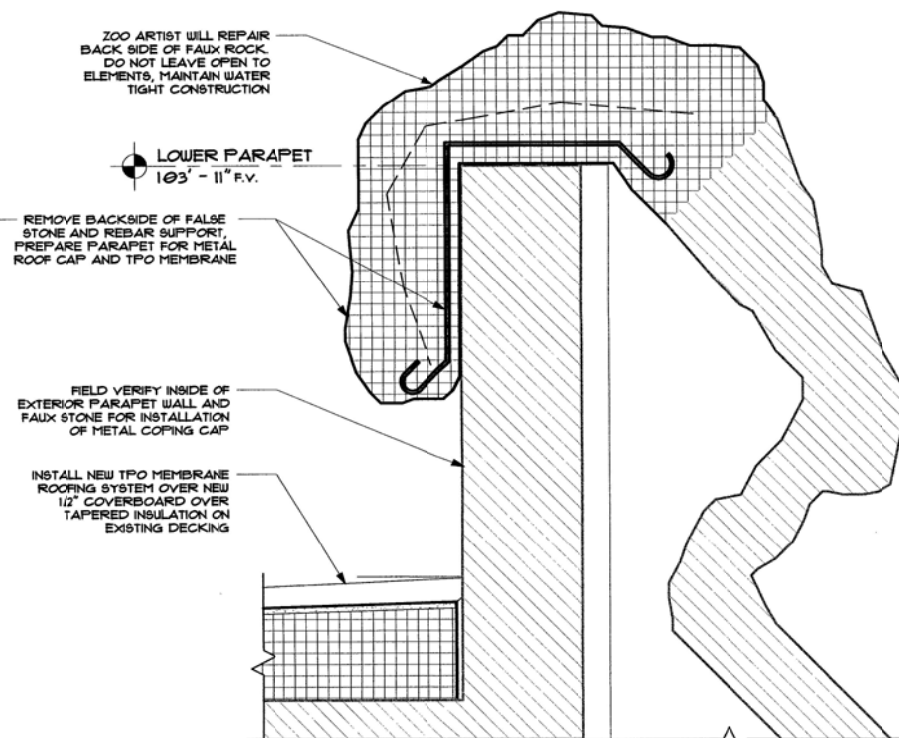
C ROOFTOP SIDE RAILING
1 1/2" = 1'-0"



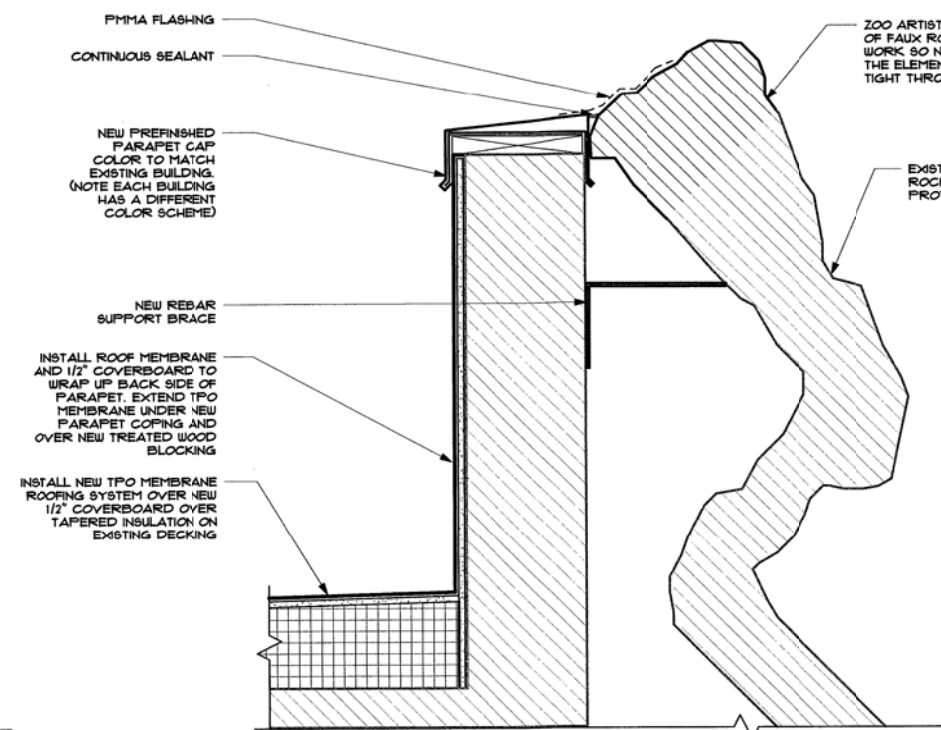
B NEW CROSSOVER ROOF LADDER
1" = 1'-0"



EXISTING CONDITIONS PHOTOGRAPH



DEMOLITION DETAIL



NEW DETAIL

A CONNECTION TO FAUX STONE AND PARAPET COPING
NTS



GH2 ARCHITECTS
21 NORTH GREENWOOD AVE - SUITE 200, TULSA, OKLAHOMA

TULSA ZOO ROOF REPLACEMENT

6421 E 36th St N, Tulsa, OK 74115

PROJECT NUMBER: CP24-21



CITY ARCHITECTURAL BUILDING SERVICES

DRAWN	B. RAMOS	PROJ. MGR.	1/1	9/26
DESIGNED		CDS MGR.	SAW	9/26
SURVEY		FIELD MGR.	SAW	9/26
		CITY ENG.	SAW	9/26

ISSUE BLOCK BY: DATE:

SHEET NAME:
DETAILS

SHEET NO:
A503

SHEET 19 OF 20

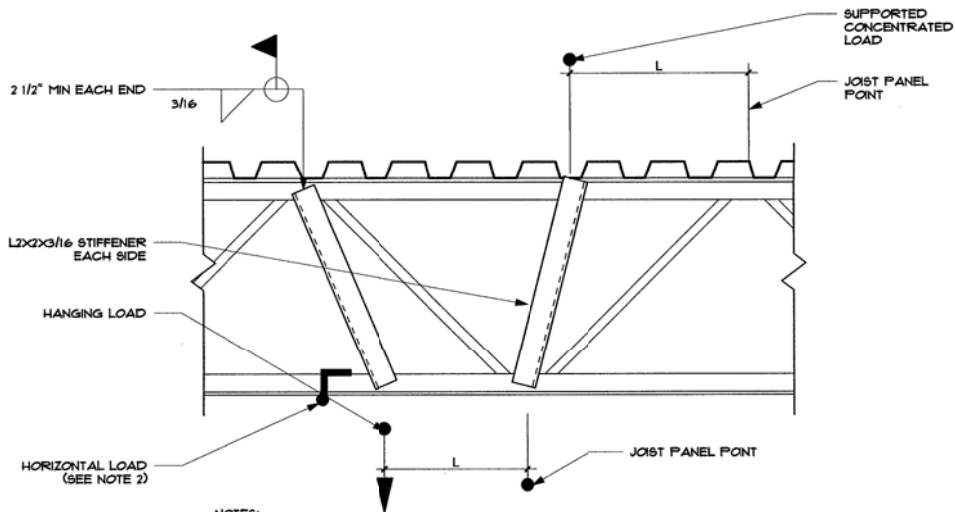
NOTE: FOR SKYLIGHT INFILL, REMOVE EXISTING METAL DECK AS REQUIRED FOR INSTALLATION OF NEW METAL DECK. REPLACE WITH 1 1/2" NARROW RIB OR TYPE A GALVANIZED DECK TO MATCH EXISTING (OVERLAY ALLOWED IF PERFECT MATCH DECK FOUND). ATTACH TO SUPPORTS WITH #12 TEK'S AT 6" OC AND #12 TEK'S AT 6" OC AT SIDELAPS, TYPICAL.



360 Engineering Group, PLLC
www.360enggroup.com
1350 S Boulder Ave, Ste 1100
Tulsa, OK 74119
918.518.1124

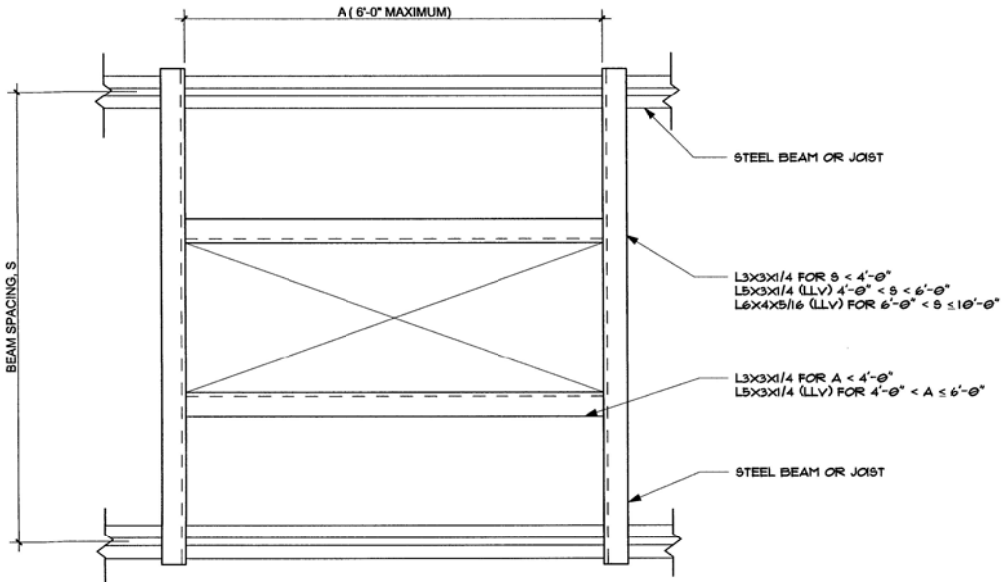


09/21/2026



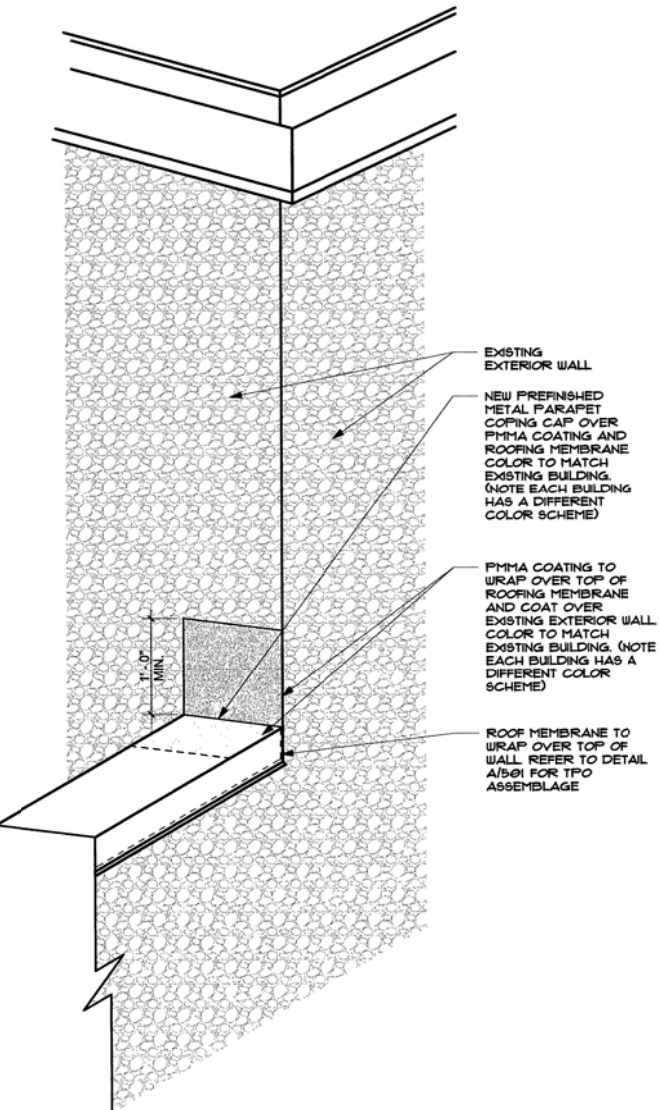
- NOTES:
1. STIFFENER REQUIRED FOR ALL CONCENTRATED LOADS WHERE "L" EXCEEDS 6" AND CONCENTRATED LOAD EXCEEDS 100 LBS.
 2. PROVIDE L2 1/2x2 1/2x1/4 KICKER WELDED TO TOP CHORD OF ADJACENT JOIST WHERE HORIZONTAL LOADS IMPOSED ON BOTTOM CHORD.

TYPICAL JOIST REINFORCEMENT AT CONCENTRATED LOAD

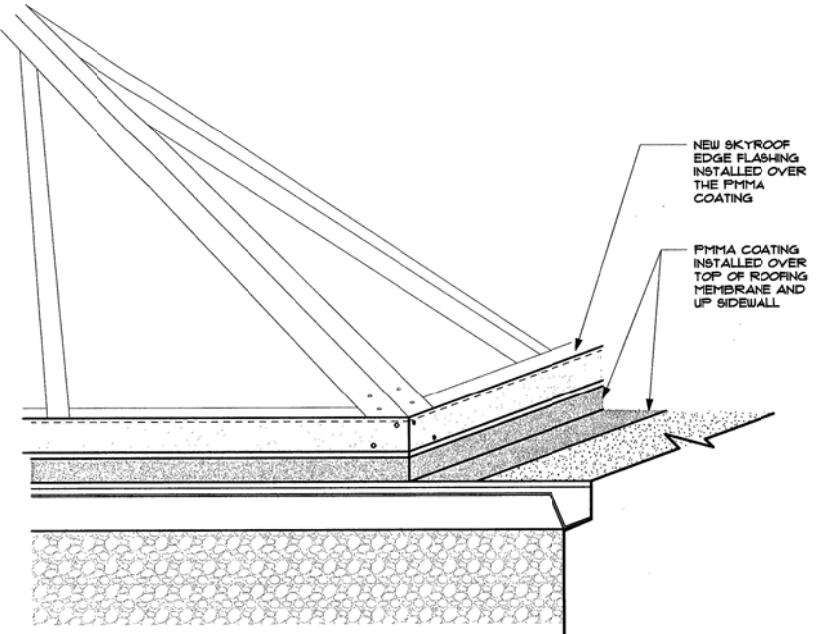


- NOTES:
1. COORDINATE OPENING SIZES AND LOCATIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
 2. ROOF DECK SHALL BE CONTINUOUS OVER FRAMED OPENING. DO NOT CUT OPENINGS UNTIL IMMEDIATELY BEFORE THEY ARE NEEDED.
 3. VERIFY FRAMING WITH ENGINEER WHERE DIMENSIONS EXCEED MAXIMUM DIMENSIONS SHOWN IN THIS DETAIL.
- CONTRACTOR OPTION: IT IS PERMISSIBLE TO SUBSTITUTE STEEL FRAMING OPENING AS SHOWN WITH QUICK FRAME OR APPROVED EQUAL. SUBMIT ENGINEERING DATA FOR PRODUCT LOAD CAPACITY FOR APPROVAL. JOIST STIFFENER ANGEL PER 3/1 5291 IS REQUIRED FOR CONCENTRATED LOADS OUTSIDE OF PANEL POINTS.

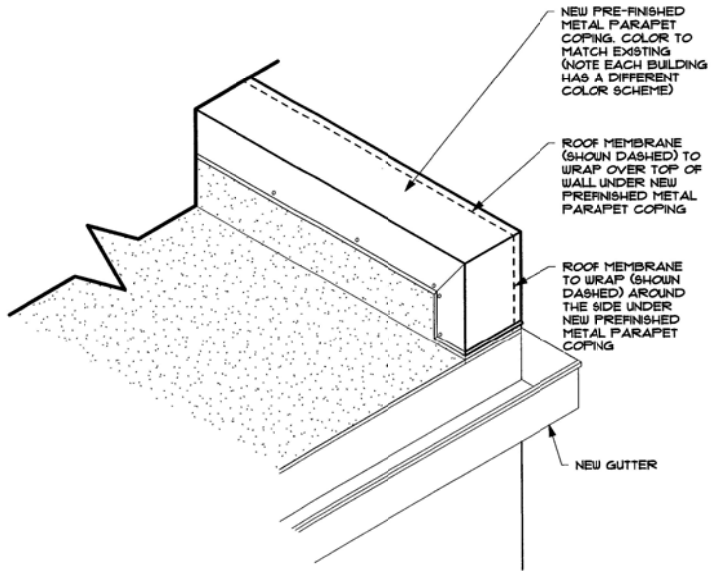
D TYP FRAMING THRU ROOF DECK



C PMMA COATING FROM PARAPET TO WALL



B SKYROOF CORNER FLASHING



A ROOF COPING CORNER DETAIL



GH2 ARCHITECTS

21 NORTH GREENWOOD AVE - SUITE 200, TULSA, OKLAHOMA

TULSA ZOO ROOF REPLACEMENT

6421 E 36th St N, Tulsa, OK 74115

PROJECT NUMBER: CP24-21



CITY ARCHITECTURAL BUILDING SERVICES

DRAWN	B. RAMOS	PROJ. MGR.	AM	9/16
DESIGNED		CDS MGR.	SW	7/28
SURVEY		FIELD MGR.	SW	9/26
		CITY ENG.	SW	9/26

ISSUE BLOCK	BY:	DATE:

SHEET NAME:
DETAILS

SHEET NO:
A504

SHEET 20 OF 20