

ROOF REPLACEMENT/RESTORATION PROJECT

for

LONE STAR COLLEGE CYFAIR CAMPUS: CENTER FOR THE ARTS
 9191 BARKER CYPRESS RD
 CYPRESS, TEXAS

PREPARED FOR
 LONE STAR COLLEGE SYSTEM
 20515 STATE HIGHWAY 249
 HOUSTON, TEXAS 77070-2607



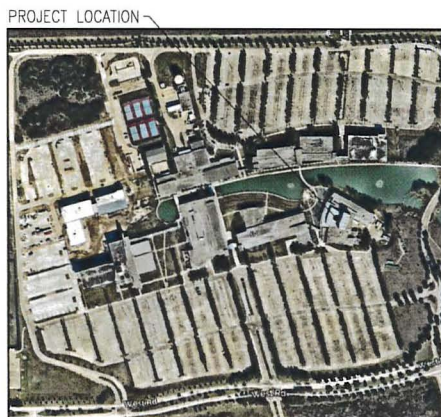
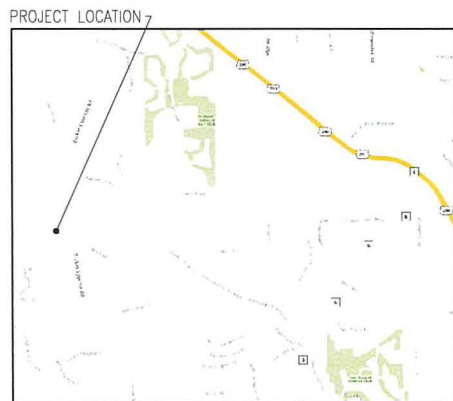
PREPARED BY



TX P.E. FIRM # F-3814
 PRICE CONSULTING, INCORPORATED
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 (281) 209-1724

PROJECT SITE PLAN

PROJECT LOCATION MAP



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PROJECT:
 LONE STAR COLLEGE CYFAIR CAMPUS: CENTER FOR THE ARTS
 9191 BARKER CYPRESS RD
 CYPRESS, TEXAS 77433

OWNER/CLIENT:
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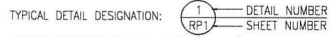
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NO.	DATE	BY

COVER SHEET
 PCI PROJECT NO.: 11943.21
 PCI FILE NAME: R1.00
 SCALE: AS NOTED

DWN.BY: DATE:
 ESG 12/05/25
 SHEET: R1.00

GENERAL NOTES:

- ALL DIMENSIONS, EQUIPMENT, UTILITY PIPING/CABLING, AND PENETRATION SIZE, QUANTITY, & LOCATIONS PRESENTED ON THE DRAWINGS SHALL BE FIELD VERIFIED.
- THESE DRAWINGS AND DETAILS ACCOMPANY SPECIFICATIONS AND DOCUMENTS THAT COMPRISE A PROJECT MANUAL.
- DETAILS ARE DESIGNATED AT REPRESENTATIVE LOCATIONS. EACH LOCATION AND SIMILAR CONDITIONS ARE TO BE TREATED ACCORDINGLY.



- UNLESS INDICATED BY THE TERM "EXISTING", ITEMS PRESENTED ON DETAIL DRAWINGS ARE CONSIDERED TO BE NEW AND FURNISHED BY CONTRACTOR.

SCOPE OF WORK NOTES:

- EXISTING ROOF CONSTRUCTION:

AREAS "A", "C", "D", "H", AND "I": GRANULE-SURFACED MODIFIED BITUMEN CAP SHEET, 3-PLIES OF FIBERGLASS FELTS; 1-INCH PERLITE INSULATION BOARD; 2.5-INCH POLYISOCYANURATE INSULATION BOARD, AND FLUTED STEEL DECK.

AREAS "B", "F", AND "G": SMOOTH-SURFACED SINGLE PLY MEMBRANE; 3-INCH THICK POLYISOCYANURATE INSULATION BOARD, AND FLUTED STEEL DECK.

AREA "E": CORRUGATED METAL ROOF PANELS ON OPEN FRAMING.

- AREAS "A", "C", "E", "H", AND "I": REMOVE DESIGNATED SECTIONS OF MEMBRANE AND WET INSULATION DOWN TO STEEL DECK; REPLACE INSULATION TO MATCH THICKNESS OF EXISTING ROOF; INSTALL COVER BOARD OVER EXISTING AND REPAIRED AREAS MECHANICALLY ATTACHED TO DECK AND APPLY A 2-PLY MODIFIED BITUMEN MEMBRANE WITH GRANULE-SURFACED CAP SHEET WITH REFLECTIVE SURFACING. (REF. DIAGRAM 2/R1.01)

- AREA "D": REMOVE EXISTING ROOFING DOWN TO EXISTING STEEL DECK; INSTALL 2 LAYERS OF 2.2-INCH, TOTAL 4.4-INCHES POLYISOCYANURATE INSULATION BOARD MECHANICALLY ATTACHED; ADHERE A LAYER OF COVER BOARD; AND APPLY A 2-PLY MODIFIED BITUMEN ROOF SYSTEM WITH GRANULE-SURFACED CAP SHEET WITH WHITE REFLECTIVE SURFACING COMPLYING WITH COOL ROOF GUIDELINES, 0.70 INITIAL SOLAR REFLECTIVITY, 3-YEAR AGE REFLECTIVITY OF.

- PROVIDE NEW TREATED WOOD NAILERS/BLOCKING/SHEATHING AS REQUIRED TO PROVIDE FOR INDICATED DETAILS AND TO MEET SPECIFIED REQUIREMENTS. PROVIDE ADDITIONAL FASTENERS AS NECESSARY. EXISTING CARPENTRY WHICH ARE SOUND AND PROPERLY ANCHORED MAY BE RE-USED. EXISTING DAMAGED OR DETERIORATED CARPENTRY SHALL BE REMOVED AND REPLACED. INSTALL NEW TREATED WOOD BLOCKING, SHEATHING, SHIMS, ETC. TO MATCH THICKNESS OF NEW INSULATION WHERE APPLICABLE, AND TO PROVIDE NAILABLE SUBSTRATES AT PERIMETERS & ON WALLS.

- RAISE OR LOWER ALL EQUIPMENT, UTILITY LINES, PENETRATIONS, PIPING, ETC. AS REQUIRED FOR INSTALLATION OF THE NEW ROOF SYSTEM. PROVIDE NECESSARY DISCONNECT/RECONNECT, EXTENSIONS AND MISCELLANEOUS COMPONENTS.

- REMOVE/RETAIN EXISTING MASONRY INSTALL NEW THROUGH-WALL FLASHINGS AT MASONRY RISE WALLS AT DESIGNATED/REQUIRED LOCATIONS, AND RE-INSTALL MASONRY.

- SECURE CLAMP RINGS WITH NEW STAINLESS STEEL BOLTS, WASHERS, NUTS, AND HARDWARE.

- PERFORM PULL-OUT RESISTANCE TESTS IN ACCORDANCE WITH ANSI/SPRI FX1 ON PROPOSED INSULATION SCREW FASTENERS.

- INSTALL NEW MEMBRANE FLASHINGS AT PENETRATIONS, CURBS, PARAPET WALLS, AND RISEWALLS

- INSTALL NEW SHEET-METAL FLASHINGS AT WALLS, CURBS, AND PENETRATIONS.

- REMOVE DESIGNATED ABANDONED ITEMS & ITEMS DETERMINED TO BE NONFUNCTIONAL & NOT FOR REUSE.

- RAISE, LOWER, OR MODIFY UTILITY LINES, PIPING, EQUIPMENT, OR OTHER ITEMS TO ACHIEVE PROPER FLASHING AND/OR SUPPORTS FOR THE NEW ROOF SYSTEM.

- RAISE CURBS, EQUIPMENT, ETC., AS NECESSARY TO ACHIEVE A MINIMUM FLASHING HEIGHT OF 8-INCHES (200MM) ABOVE THE FINISHED ROOF.

- CLEAN & PAINT EXISTING ROOF-TOP SHEET METAL VENTS & EQUIPMENT.

- INSTALL NEW FALL PROTECTION TIE-BACKS AT DESIGNATED LOCATIONS.

- INSTALL WALL-MOUNTED ACCESS LADDERS AT DESIGNATED LOCATIONS.

- INSTALL 2X WOOD NAILER, PLYWOOD, AND NEW SHOP-FABRICATED OR PRE-MANUFACTURED SHEET METAL EDGE FLASHING AND/OR COPING IN COMPLIANCE WITH ANSI/SPRI/FM4435 ES-1 TEST STANDARD CRITERIA; TEST METHODS RE-1, RE-2, RE-3

- APPLY 36"x36" SIZED AREA OF REINFORCED PMMA LIQUID FLASHING ON TOP OF CAPSHEET, AND CENTERED OVER ROOF DRAINS. EMBED GRANULES INTO SURFACE OF LIQUID FLASHING TO MATCH CAP SHEET.

- PROVIDE LIQUID FLASHING SYSTEM FOR STEEL PIPES, ANGLES, TUBES, POSTS, TIE-BACKS, DAVIT BASES, LIGHTNING PROTECTION PENETRATIONS, & OTHER SIMILAR PENETRATIONS THROUGH THE ROOF SYSTEM.

- INSTALL WALK PADS AT ROOF ACCESS POINTS, AROUND SERVICEABLE EQUIPMENT, AND OTHER HIGH TRAFFICKED AREAS.

- REMOVE LIGHTNING PROTECTION SYSTEM; RE-INSTALL AFTER NEW ROOF INSTALLATION; SET CABLE HOLDERS, CONNECTIONS AND TERMINAL BASES ON PROTECTION PADS, AND PROVIDE CERTIFICATION OF SYSTEM UPON COMPLETION OF INSTALLATION. PROVIDE BLUNT-TIP AIR TERMINALS.

- INSTALL NEW ROOF SYSTEM TO COMPLY WITH IBC-2015 AND IECC-2012. POLYISOCYANURATE INSULATION SHALL COMPLY WITH IBC-2015 SECTION 1508 AND TABLE 1508.2 AND IECC-2012. WHITE REFLECTIVE SURFACING OF ROOF SHALL COMPLY WITH IBC-2015 SECTION 1507.11; SECTION 1505.2; CLASS "A" FIRE CLASSIFICATION AND TO HAVE A MINIMUM 3-YR AGED SOLAR REFLECTIVE OF 0.55 TESTED PER ASTM C1549; E903, E1175, OR E1918 AND A MINIMUM 5-YR AGED SOLAR REFLECTIVE INDEX OF 0.64 AS DETERMINED IN ACCORDANCE WITH ASTM E-1980.

- INSTALL ROOF SYSTEM TO MEET MINIMUM WIND UPLIFT PRESSURE AS FOLLOWS:

ASCE 7-16 WIND UPLIFT PRESSURES	WIND SPEED: 139MPH EXPOSURE: B
TESTED IN ACCORDANCE WITH FM 4474/FM 4470	BUILDING CATEGORY: ENCLOSED RISK CATEGORY III EAVE HEIGHT (h) 30-FT
ZONE 1'	- 45 PSF
ZONE 1 = 18-FT	- 67.5 PSF
ZONE 2 = 18-FT	- 90 PSF
ZONE 3 = 6-FT X 18-FT	- 120 PSF

- ALT. BID: AREAS "B", "F", & "G": CLEAN AND REPAIR SINGLE-PLY MEMBRANE AND APPLY ELASTOMERIC COATING.

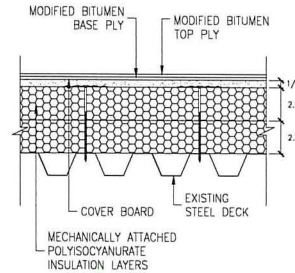
GENERAL CONSTRUCTION NOTES:

- SITE & WORK AREAS SHALL BE CLEANED ON DAILY BASIS AND MATERIALS/EQUIPMENT SECURED AT THE END OF EACH WORK DAY.
- PROTECT BUILDING EXTERIORS AND GROUNDS INCLUDING SURFACES, GRASS, PLANTS, TREES, SHRUBS, AND OTHER LANDSCAPING, AND RETURN THE SITE AND ANY DAMAGED ITEMS TO ORIGINAL OR BETTER CONDITION. ANY SURFACES STAINED, MARRED, OR DAMAGED BY WORK SHALL BE RETURNED TO ORIGINAL OR BETTER CONDITIONS AND MATCH ADJACENT SURFACES.
- PRIOR TO PERFORMING WORK, CONTRACTOR SHALL INSPECT EXISTING CONDITIONS AND SUBSTRATE CONDITIONS AND DOCUMENT APPLICABLE PRE-EXISTING DAMAGES, AND SUBMIT TO OWNER PRIOR TO COMMENCING WORK. PROVIDE FOR THE SAFETY AND PROTECTION OF WORKERS AND OCCUPANTS THROUGHOUT THE COURSE OF WORK.
- BUILDING ACCESS SHALL BE COORDINATED WITH THE OWNER AND SHALL BE ONLY AS REQUIRED TO ACCOMPLISH WORK.
- FACILITIES MAY BE OCCUPIED DURING CONSTRUCTION. CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PROTECT THE FACILITY, CONTENTS, OCCUPANTS, AND GENERAL PUBLIC.
- SCAFFOLDING, STAIR TOWERS, AND LADDER SHALL ADHERE TO ALL SAFETY STANDARDS AND ANY MODIFICATIONS TO THE FACILITY FOR THOSE ITEMS SHALL BE RETURNED TO THEIR ORIGINAL CONDITION.
- THE BUILDINGS SHALL REMAIN WATERTIGHT AT THE END OF EACH WORK DAY AND WHEN INCLEMENT WEATHER THREATENS.

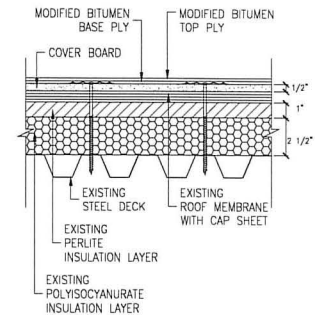
- APPLICATIONS/INSTALLATIONS WHICH MAY AFFECT ADJACENT FACILITIES, CARS, OR PEDESTRIANS MUST BE PLANNED AND COORDINATED TO ENSURE NO DAMAGE OCCURS.

- DISCONNECT AND REMOVE MECHANICAL AND ELECTRICAL EQUIPMENT AS NECESSARY TO AFFECT WORK IN THE AREAS AND REINSTALL UPON COMPLETION OF WORK IN THE AREA TO MINIMIZE DOWN TIME. PROVIDE FOR EXTENSION AND MODIFICATION OF SERVICE UTILITIES, INTERIOR COMPONENTS, AND CONNECTIONS AS NECESSARY TO ACCOMMODATE NEW WORK.

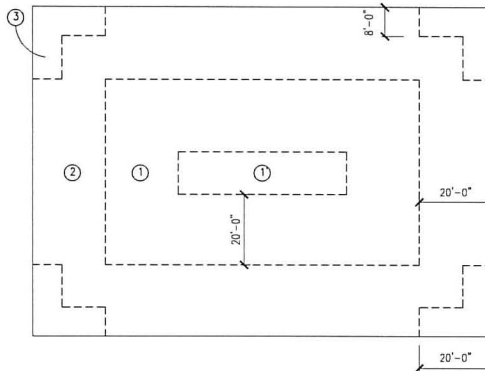
- CABLES, WIRES, SATELLITES, ANTENNAS, MECHANICAL, ELECTRICAL OR ELECTRONIC COMPONENTS SHALL BE TEMPORARILY DISCONNECTED AND RECONNECTED BY QUALIFIED CRAFTSMEN ON ROOFS, WALLS AND ADJACENT AREAS AFFECTED BY CONTRACT REQUIREMENTS.



AREA "D" TYPICAL NEW ROOF CONSTRUCTION
SCALE: 1-1/2"=1'-0"(11"x17"); 3"=1'-0"(22"x34")



AREAS "A", "C", "E", "H", AND "I" TYPICAL NEW ROOF CONSTRUCTION
SCALE: 1-1/2"=1'-0"(11"x17"); 3"=1'-0"(22"x34")



WIND LOAD DIAGRAM
SCALE: 1"=400'-0"(11"x17"); 1"=200'-0"(22"x34")



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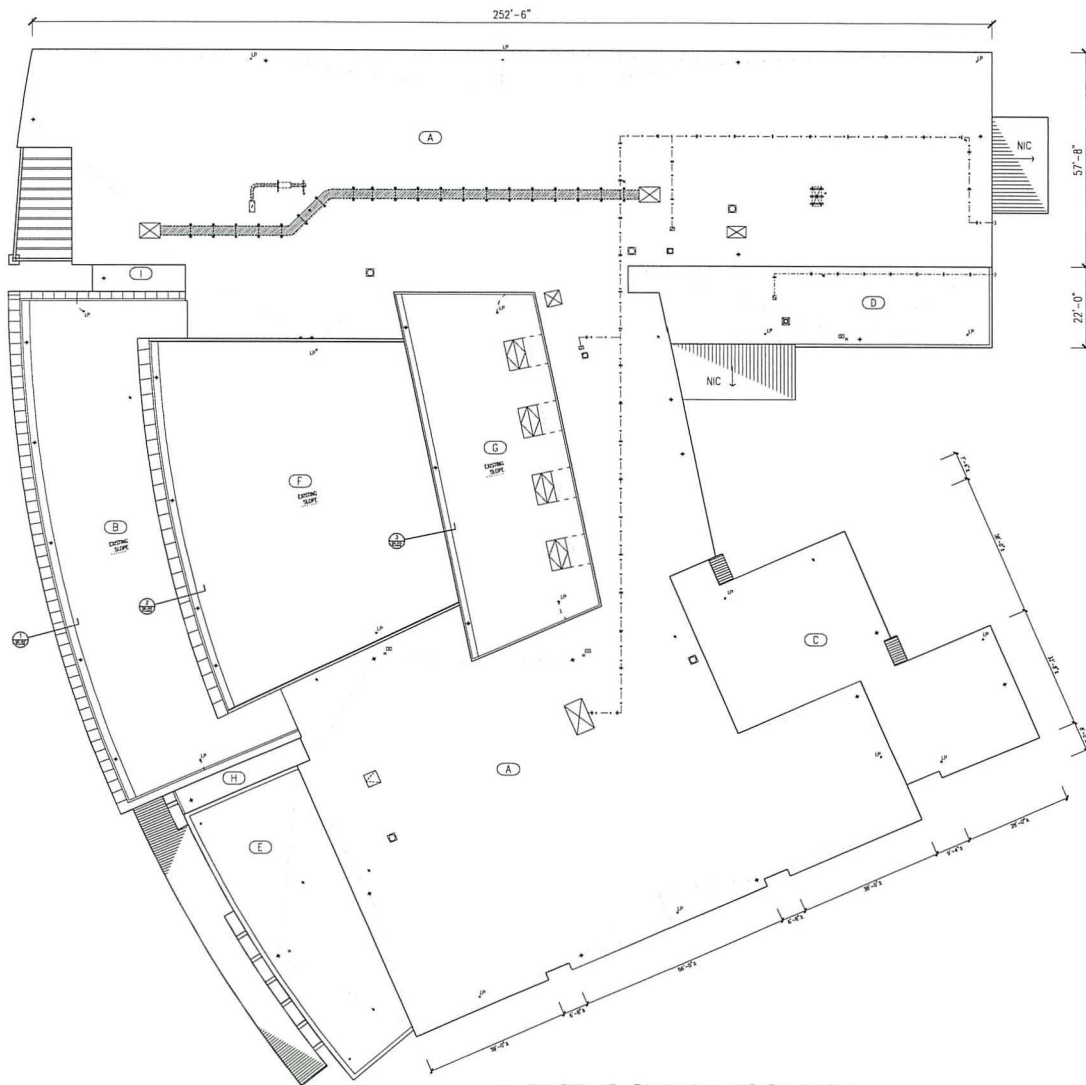
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GENERAL NOTES
PCI PROJECT NO.: 11943.21
PCI FILE NAME: R1.01
SCALE: AS NOTED

DWN.BY: DATE:
ESG 12/05/25
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LEGEND

○ OVERFLOW DRAIN	⊕ PLUMBING VENT
⊕ ROOF DRAIN	⊕ HEAT EXHAUST
⊕ WALL DRAIN	⊕ CURBED HEAT EXHAUST
⊕ SUMPED DRAIN	⊕ GRAVITY VENT
⊕ POWER VENT	⊕ CURBED VENT STACK
⊕ CURBED VENT STACK	⊕ GRAVITY VENT
⊕ CURBED TURBINE VENT	⊕ TURBINE VENT
⊕ ABANDONED PENETRATION	⊕ MOISTURE RELIEF VENT
⊕ PIPING ON HANGERS	⊕ ROUND PENETRATION
⊕ PIPING ON SUPPORTS	⊕ GOOSENECK PENETRATION
⊕ CONDENSATION DRAIN LINE	⊕ PIPE BCK
⊕ ELECTRICAL CONDUIT	⊕ TE-BACK
⊕ GAS LINE	⊕ DAWT
⊕ MECHANICAL SCREEN	⊕ EXPANSION JOINT
⊕ CHILL / HOT WATER	⊕ ROOF-TO-WALL EXPANSION JOINT
⊕ AIR TERMINAL	⊕ METAL EDGE
⊕ THROUGH-ROOF CONNECTION	⊕ DOWNPOUT AND GUTTER
⊕ DUCT PENETRATION	⊕ PARAPET
⊕ VENT / INTAKE	⊕ THROUGH-WALL SCUPPER
⊕ GRAVITY VENT	⊕ THROUGH-EDGE SCUPPER
⊕ EQUIPMENT ON SUPPORTS	⊕ SCUPPER W/HC COLLECTOR HEAD
⊕ EQUIPMENT ON PITCH PANS	⊕ UP WALL THICKNESS INDICATOR
⊕ EQUIPMENT ON SLEEPS	⊕ WALL HEIGHT INDICATOR
⊕ EQUIPMENT ON CURBS	⊕ SPLASHBLOCK
⊕ SATELLITE DISH	⊕ CURBED DUCT PENETRATION
⊕ ROOF-MOUNTED LADDER	⊕ DUCT ON SUPPORTS
⊕ OGGED LADDER	⊕ DUCT ON CURBS
⊕ WALL-MOUNTED LADDER	⊕ DUCT ON STEEL
⊕ WALKPAD	⊕ ROOF HATCH
⊕ DOOR ACCESS	⊕ SMOKE HATCH
⊕ LIGHT	⊕ SKYLIGHT
⊕ SHINGLE ROOF	⊕ STRUCTURAL SKYLIGHT
⊕ ANTENNA	⊕ STRUCTURAL SKYLIGHT
⊕ AREA IDENTIFICATION	⊕ CHIMNEY
⊕ EDGE LOCATION	⊕ ROUND GOOSENECK
⊕ LEAK LOCATION	⊕ SQUARE GOOSENECK
⊕ INFRARED ID	⊕ ROSE-WALK
⊕ TEST LOCATION	⊕ OUT WIRE ANCHOR
⊕ PHOTO LOCATION	⊕ TILE ROOF
⊕ PIRSE LOCATION	⊕ METAL ROOF
⊕ SUSPECTED WET AREA	⊕ COLUMN

EXISTING OVERALL ROOF PLAN:
 SCALE: 1/32"=1'-0" (11"x17"); 1/16"=1'-0" (22"x34")



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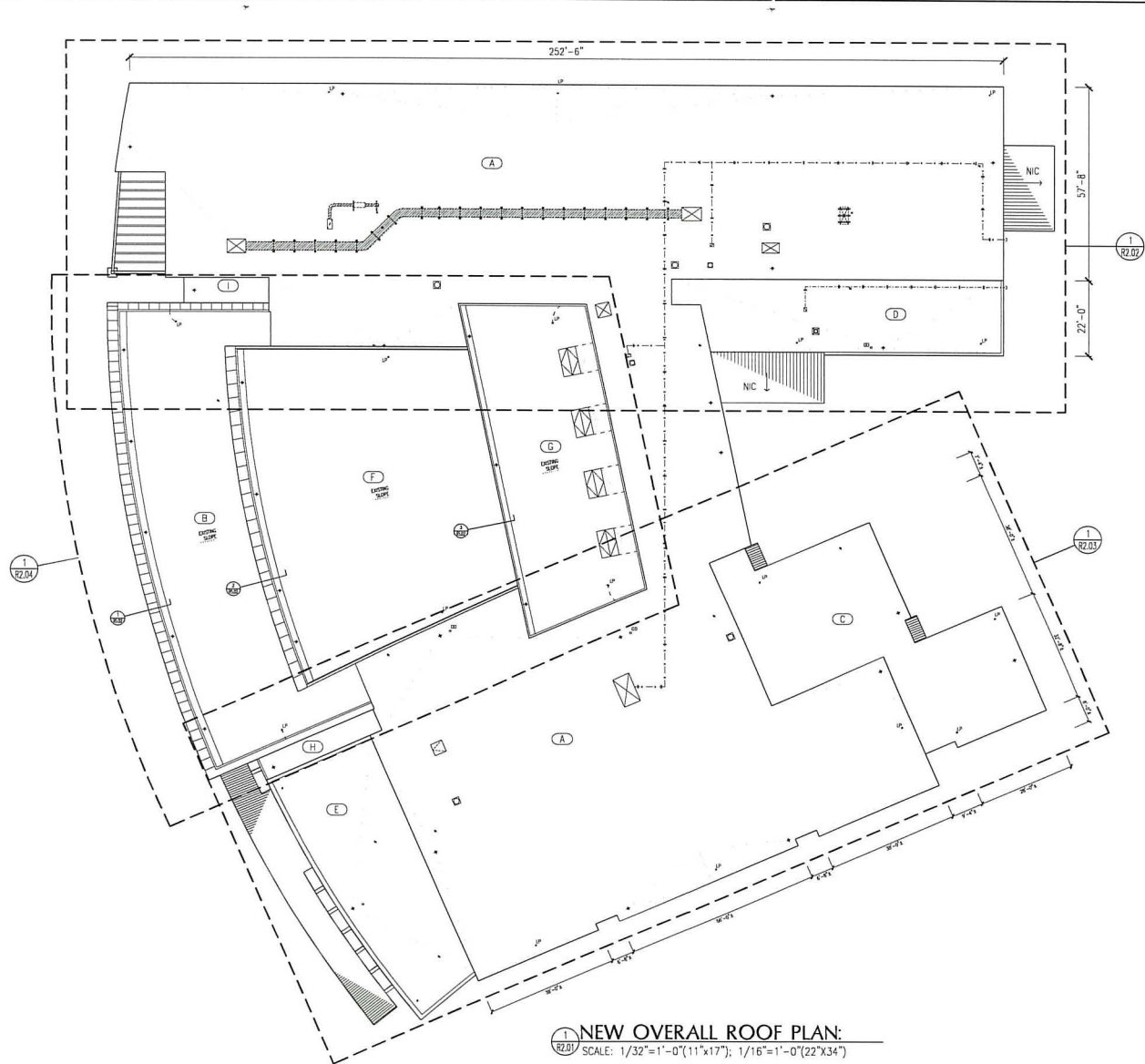
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EXISTING OVERALL ROOF PLAN
 PCI PROJECT NO.: 11943.21
 PCI FILE NAME: R2.00-R2.05
 SCALE: AS NOTED



DWN. BY: ESG
DATE: 12/05/25
SHEET: R2.00



LEGEND

⊕ OVERFLOW DRAIN	⊕ PLUMBING VENT
⊕ ROOF DRAIN	⊕ HEAT EXHAUST
⊕ WALL DRAIN	⊕ CURBED HEAT EXHAUST
⊕ SHARDED DRAIN	⊕ GRAVITY VENT
⊕ POWER VENT	⊕ CURVED VENT STACK
⊕ CURBED VENT STACK	⊕ TURBINE VENT
⊕ CURBED TURBINE VENT	⊕ WINDLIFT RELIEF VENT
⊕ ABANDONED PENETRATION	⊕ PITCH PAN
⊕ PIPING ON HANGERS	⊕ ROUND PENETRATION
⊕ PIPING ON SUPPORTS	⊕ COGNOSHECK PENETRATION
⊕ PIPING ON CURBS	⊕ PIPE BOX
⊕ CONDENSATION DRAIN LINE	⊕ TE-BACK
⊕ ELECTRICAL CONDUIT	⊕ DUCT
⊕ GAS LINE	⊕ EXPANSION JOINT
⊕ MECHANICAL SCREEN	⊕ ROOF-TO-WALL EXPANSION JOINT
⊕ CHILL / HOT WATER AIR TERMINAL	⊕ METAL EDGE
⊕ THROUGH-ROOF CONNECTION	⊕ DOWNPOUT AND GUTTER
⊕ DUCT PENETRATION	⊕ PARAPET
⊕ EQUIPMENT CURB	⊕ THROUGH-WALL SCUPPER
⊕ VENT / INTAKE	⊕ THROUGH-EDGE SCUPPER
⊕ GRAVITY VENT	⊕ SCUPPER WITH COLLECTOR HEAD
⊕ EQUIPMENT ON SUPPORTS	⊕ WALL THICKNESS INDICATOR
⊕ EQUIPMENT ON PITCH PANS	⊕ WALL HEIGHT INDICATOR
⊕ EQUIPMENT ON SLEEPERS	⊕ SPLASHBLOCK
⊕ EQUIPMENT ON CURBS	⊕ CURBED DUCT PENETRATION
⊕ SATELLITE DISH	⊕ DUCT ON SUPPORTS
⊕ ROOF-MOUNTED LADDER	⊕ DUCT ON CURBS
⊕ CAGED LADDER	⊕ DUCT ON STEEL
⊕ WALL-MOUNTED LADDER	⊕ ROOF PATCH
⊕ WALKPAD	⊕ SMOKE PATCH
⊕ ROOF ACCESS	⊕ SMOKEKIT
⊕ LIGHT	⊕ STRUCTURAL SKYLOFT
⊕ SINGLE ROOF	⊕ STRUCTURAL SKYLOFT
⊕ ANTENNA	⊕ CHIMNEY
⊕ AREA IDENTIFICATION	⊕ ROUND COGNOSHECK
⊕ CORE LOCATION	⊕ SQUARE COGNOSCHECK
⊕ LEAK LOCATION	⊕ ROSE-WALL
⊕ INFIRMED I.D.	⊕ CULY WIRE ANCHOR
⊕ TEST LOCATION	⊕ TELE ROOF
⊕ PHOTO LOCATION	⊕ METAL ROOF
⊕ PROBE LOCATION	⊕ COLUMN
⊕ SUSPECTED MET AREA	

NEW OVERALL ROOF PLAN:
 SCALE: 1/32"=1'-0" (11'x17"); 1/16"=1'-0" (22'x34")

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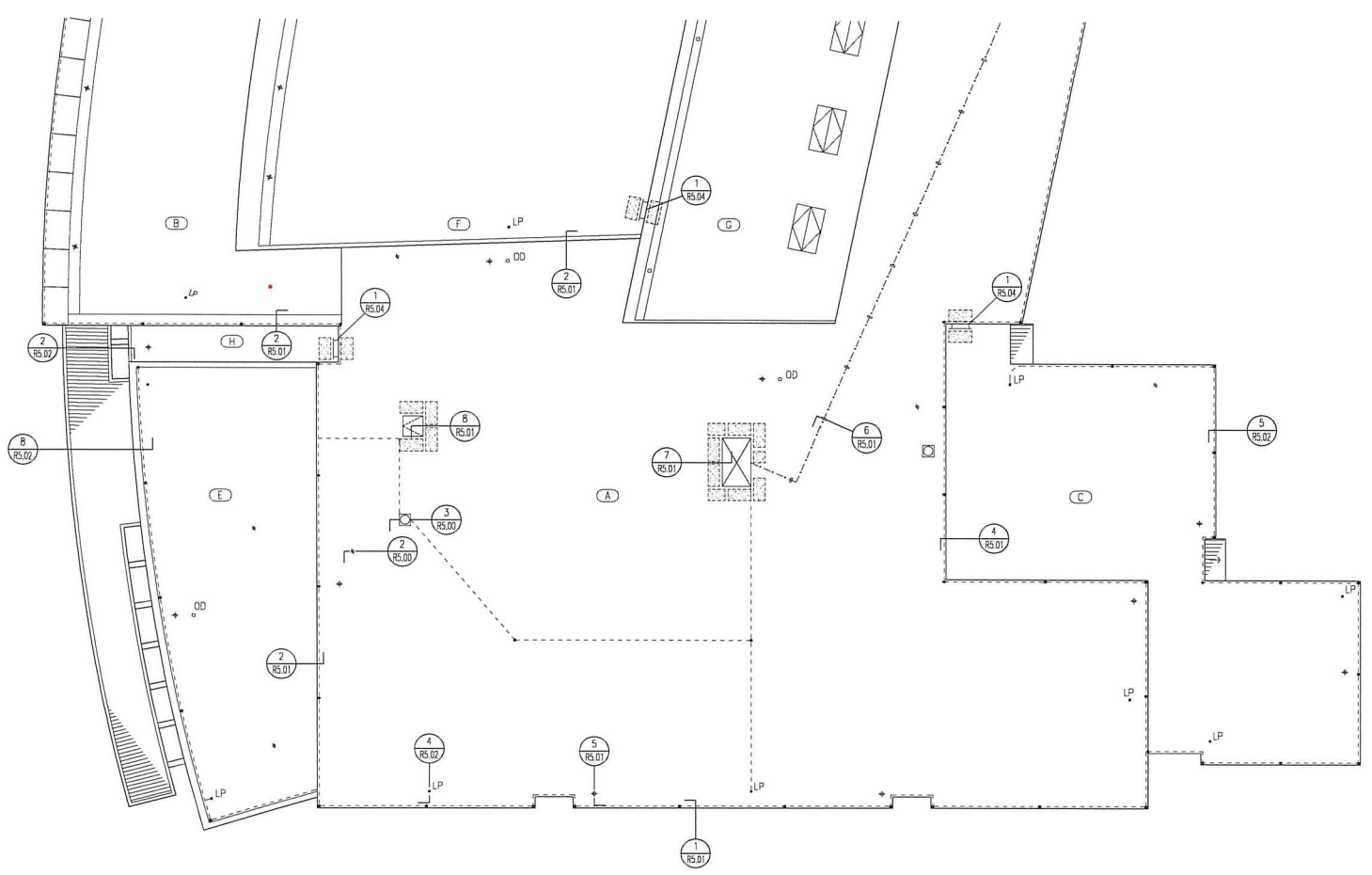
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NEW OVERALL ROOF PLAN
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ESG
 DATE: 12/05/25
 SHEET: R2.01

NORTH





LEGEND	
⊕ OVERFLOW DRAIN	⊕ PLUMBING VENT
⊕ ROOF DRAIN	⊕ HEAT EXHAUST
⊕ WALL DRAIN	⊕ CURBED HEAT EXHAUST
⊕ SUMPED DRAIN	⊕ CURBED VENT STACK
⊕ POWER VENT	⊕ GRAVITY VENT
⊕ CURBED TURBINE VENT	⊕ GRAVITY VENT
⊕ ABANDONED PENETRATION	⊕ TURBINE VENT
⊕ PIPING ON HANGERS	⊕ MOISTURE RELIEF VENT
⊕ PIPING ON SUPPORTS	⊕ PITCH PAN
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⊕ MECHANICAL SCREEN	⊕ TE-BACK
⊕ CHILL / HOT WATER	⊕ DWIT
⊕ AT AIR TERMINAL	⊕ EXPANSION JOINT
⊕ THROUGH-ROOF CONNECTION	⊕ ROOF-TO-WALL EXPANSION JOINT
⊕ DUCT PENETRATION	⊕ METAL EDGE
⊕ EQUIPMENT CURB	⊕ DOWNPOUT AND GUTTER
⊕ VENT / INTAKE	⊕ PARAPET
⊕ GRAVITY VENT	⊕ THROUGH-WALL SCUPPER
⊕ EQUIPMENT ON SUPPORTS	⊕ THROUGH-EDGE SCUPPER
⊕ EQUIPMENT ON SLEEPERS	⊕ SCUPPER WITH COLLECTOR HEAD
⊕ EQUIPMENT ON CURBS	⊕ WALL THICKNESS INDICATOR
⊕ SKYLIGHT DISH	⊕ WALL HEIGHT INDICATOR
⊕ ROOF-MOUNTED LADDER	⊕ SPLASHBLOCK
⊕ CAGED LADDER	⊕ CURBED DUCT PENETRATION
⊕ WALL-MOUNTED LADDER	⊕ DUCT ON CURBS
⊕ WALKPAD	⊕ DUCT ON STEEL
⊕ DOOR ACCESS	⊕ ROOF HATCH
⊕ LIGHT	⊕ SHARPE HATCH
⊕ SHINGLE ROOF	⊕ SKYLIGHT
⊕ ANTENNA	⊕ STRUCTURAL SKYLIGHT
⊕ AREA IDENTIFICATION	⊕ STRUCTURAL SKYLIGHT
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⊕ LEAK LOCATION	⊕ ROUND GOOSENECK
⊕ INFRARED I.D.	⊕ SQUARE GOOSENECK
⊕ TEST LOCATION	⊕ ROSE-WALL
⊕ PHOTO LOCATION	⊕ DUT WIRE ANCHOR
⊕ PROBE LOCATION	⊕ TILE ROOF
⊕ SUSPECTED WET AREA	⊕ METAL ROOF
	⊕ COLUMN

1 NEW PARTIAL ROOF PLAN: AREAS "A", "C", "E", AND "H"
 R2.03 SCALE: 1"=20'-0"(11'X17"); 1"=10'-0"(22'X34")

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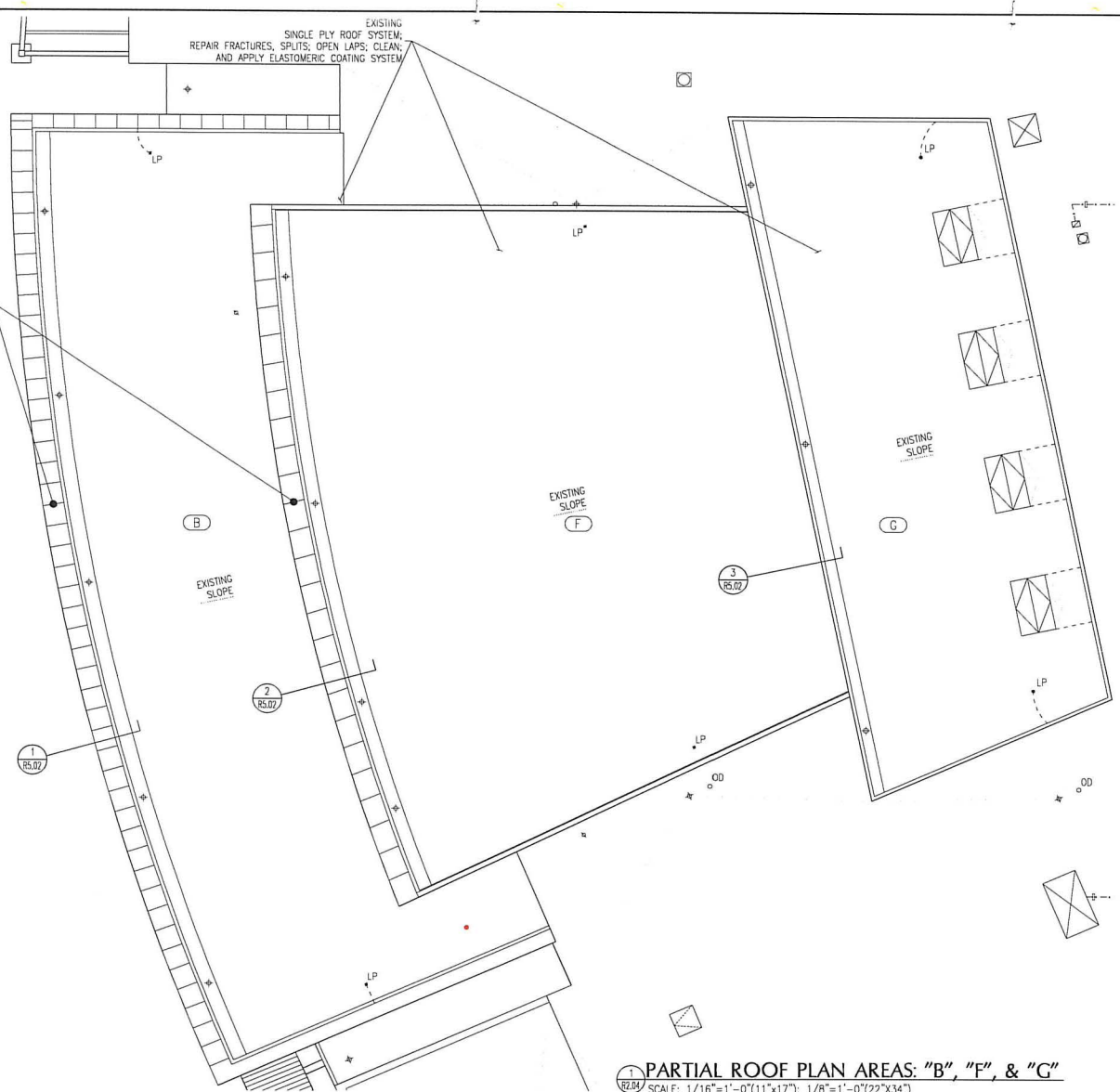


DWN.BY: DATE:
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EXISTING SINGLE PLY ROOF SYSTEM;
REPAIR FRACTURES, SPLITS, OPEN LAPS; CLEAN;
AND APPLY ELASTOMERIC COATING SYSTEM

EXISTING ACM PANELS;
REPLACE SEALANT AT JOINTS
(TYP.)



LEGEND			
⊕	OVERFLOW DRAIN	⊕	PLUMBING VENT
⊕	ROOF DRAIN	⊕	HEAT EXHAUST
⊕	WALL DRAIN	⊕	CURBED HEAT EXHAUST
⊕	SHAPED DRAIN	⊕	GRAVITY VENT
⊕	POMER VENT	⊕	CURBED VENT STACK
⊕	CURBED TURBINE VENT	⊕	GRAVITY VENT
⊕	ABANDONED PENETRATION	⊕	TURBINE VENT
⊕	PIPING ON HANDERS	⊕	MOISTURE RELIEF VENT
⊕	PIPING ON SUPPORTS	⊕	PITCH PAN
⊕	CONDENSATION DRAIN LINE	⊕	ROUND PENETRATION
⊕	ELECTRICAL CONDUIT	⊕	COUSENECK PENETRATION
⊕	Mechanical Screen	⊕	PIPE BOX
⊕	Chill / Hot Water at Air Terminal	⊕	TE-BACK DAWT
⊕	Through-Roof Connection	⊕	Expansion Joint
⊕	Duct Penetration	⊕	Roof-to-Wall Expansion Joint
⊕	Equipment Curb	⊕	Metal Edge
⊕	Vent / Intake	⊕	Downspout and Gutter
⊕	Gravity Vent	⊕	Parapet
⊕	Equipment on Supports	⊕	Through-Wall Scupper
⊕	Equipment on Pitch Fans	⊕	Through-Edge Scupper
⊕	Equipment on Sleepers	⊕	Scupper with Collector Head
⊕	Equipment on Curbs	⊕	LP Wall Thickness Indicator
⊕	Satellite Dish	⊕	Wall Height Indicator
⊕	Roof-Mounted Ladder	⊕	Splash-Block
⊕	Caged Ladder	⊕	Curbed Duct Penetration
⊕	Roof-Mounted Ladder	⊕	Duct on Supports
⊕	Walkpad	⊕	Duct on Curbs
⊕	Door Access	⊕	Duct on Steel
⊕	Light	⊕	Roof Hatch
⊕	Shingle Roof	⊕	Smoke Hatch
⊕	Antenna	⊕	Skylight
⊕	Area Identification	⊕	Structural Skylight
⊕	Core Location	⊕	Structural Skylight
⊕	Leak Location	⊕	Chimney
⊕	Infrared I.D.	⊕	Round Gooseneck
⊕	Test Location	⊕	Rise-Wall
⊕	Photo Location	⊕	Clay Wire Anchor
⊕	Probe Location	⊕	Tile Roof
⊕	Suspected Wet Area	⊕	Metal Roof
		⊕	Column

1 PARTIAL ROOF PLAN AREAS: "B", "F", & "G"
SCALE: 1/16"=1'-0"(11"x17"); 1/8"=1'-0"(22"x34")



PRICE CONSULTING, INC.
PRICE CONSULTING, INC.
7122 WORCESTER DRIVE, SUITE A
SPRING, TEXAS 77379
PHONE: (281)209-1724

PROJECT:
LONE STAR COLLEGE CYFAIR CAMPUS: CENTER FOR THE ARTS
9191 BARKER CYPRESS RD
CYPRESS, TEXAS 77433

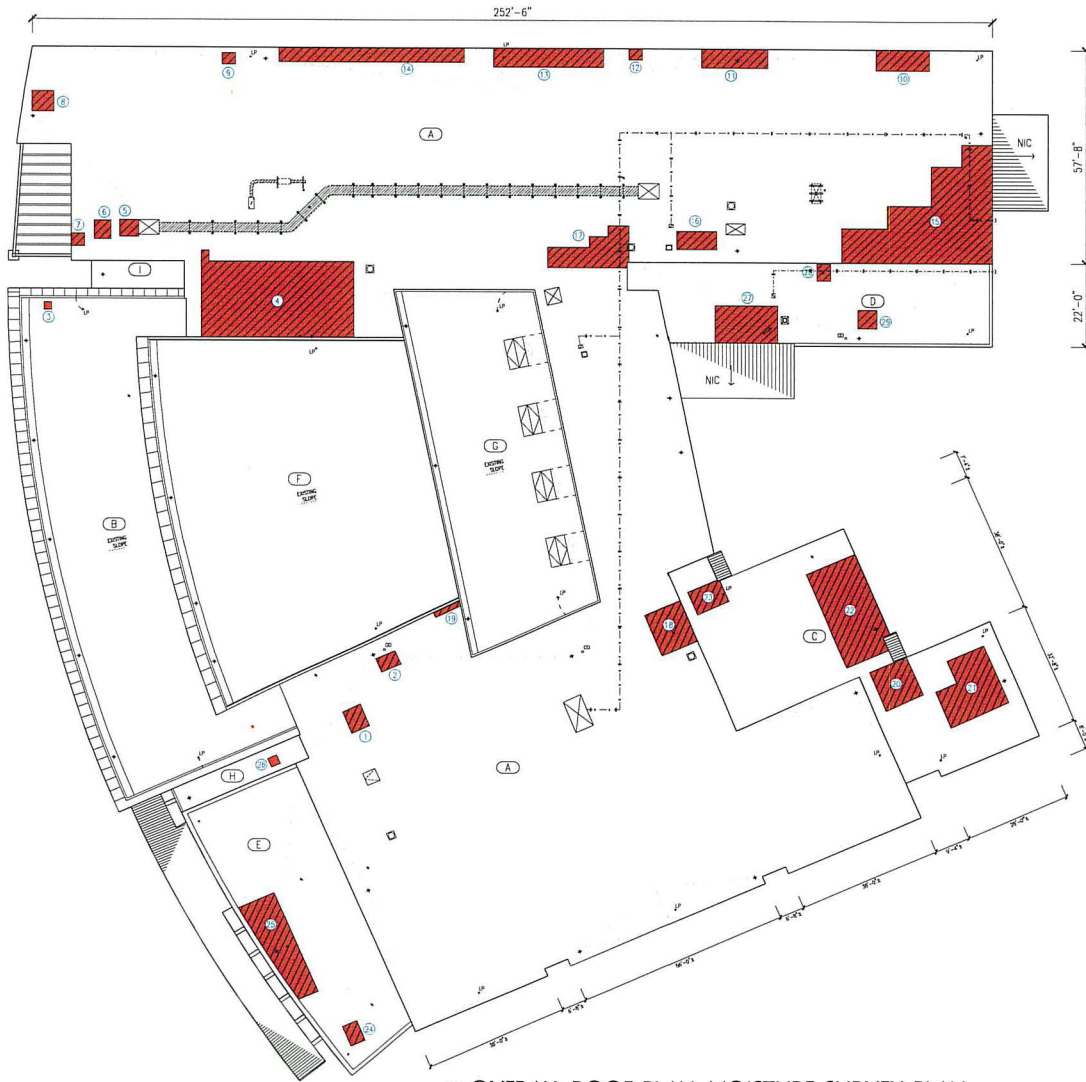
OWNER/CLIENT:
LONE STAR COLLEGE SYSTEM
20515 STATE HIGHWAY 249
HOUSTON, TEXAS 77070

REVISIONS		
NO.	DATE	BY

MOISTURE SURVEY PLAN
PCI PROJECT NO.: 11943.21
PCI FILE NAME: R2.00-R2.05
SCALE: AS NOTED



DWN. BY: DATE:
ESG 12/05/25
SHEET: R2.04



LOCATION NUMBER	SQUARE FOOTAGE	LOCATION NUMBER	SQUARE FOOTAGE
(1)	33 80 FT	(16)	83 80 FT
(2)	22 80 FT	(17)	176 80 FT
(3)	4 80 FT	(18)	115 80 FT
(4)	806 80 FT	(19)	11 80 FT
(5)	23 80 FT	(20)	186 80 FT
(6)	23 80 FT	(21)	200 80 FT
(7)	12 80 FT	(22)	370 80 FT
(8)	32 80 FT	(23)	58 80 FT
(9)	11 80 FT	(24)	22 80 FT
(10)	77 80 FT	(25)	235 80 FT
(11)	88 80 FT	(26)	8 80 FT
(12)	11 80 FT	(27)	165 80 FT
(13)	145 80 FT	(28)	16 80 FT
(14)	186 80 FT	(29)	25 80 FT
(15)	756 80 FT	TOTAL	3,730 80 FT

LEGEND	
○ OVERFLOW DRAIN	⊗ PLUMBING VENT
⊕ ROOF DRAIN	⊗ CURBED HEAT EXHAUST
⊖ WALL DRAIN	⊗ GRAVITY VENT
⊗ SUMPED DRAIN	⊗ GRAVITY VENT
⊗ POWER VENT	⊗ TURBINE VENT
⊗ CURBED VENT STACK	⊗ MOISTURE RELIEF VENT
⊗ CURBED TURBINE VENT	⊗ ROUND PENETRATION
⊗ ABANDONED PENETRATION	⊗ GOOSENECK PENETRATION
⊗ PIPING ON HANGERS	⊗ PIPE BOB
⊗ PIPING ON SUPPORTS	⊗ TE-BACK
⊗ PIPING ON CURBS	⊗ DRAIN
⊗ CONDENSATION DRAIN LINE	⊗ EXPANSION JOINT
⊗ ELECTRICAL CONDUIT	⊗ ROOF-TO-WALL EXPANSION JOINT
⊗ GAS LINE	⊗ METAL EDGE
⊗ MECHANICAL SCREEN	⊗ DOWNSPOUT AND GUTTER
⊗ CHILL / HOT WATER	⊗ PARAPET
⊗ AIR TERMINAL	⊗ THROUGH-WALL SCUPPER
⊗ THROUGH-ROOF CONNECTION	⊗ THROUGH-EDGE SCUPPER
⊗ DUCT PENETRATION	⊗ SCUPPER WITH COLLECTOR HEAD
⊗ EQUIPMENT CURB	⊗ WALL THICKNESS INDICATOR
⊗ VENT / INTAKE	⊗ WALL HEIGHT INDICATOR
⊗ GRAVITY VENT	⊗ SPLASHBLOCK
⊗ EQUIPMENT ON SUPPORTS	⊗ CURBED DUCT PENETRATION
⊗ PITCH PANEL	⊗ DUCT ON CURBS
⊗ EQUIPMENT ON SLEEFERS	⊗ DUCT ON STEEL
⊗ EQUIPMENT ON CURBS	⊗ ROOF HATCH
⊗ SKYLIGHT DISH	⊗ SMOKE HATCH
⊗ ROOF-MOUNTED LADDER	⊗ SKYLIGHT
⊗ GATED LADDER	⊗ STRUCTURAL SKYLIGHT
⊗ WALL-MOUNTED LADDER	⊗ STRUCTURAL SKYLIGHT
⊗ WALKPAD	⊗ CHIMNEY
⊗ DOOR ACCESS	⊗ ROUND GOOSENECK
⊗ LIGHT	⊗ SQUARE GOOSENECK
⊗ SHINGLE ROOF	⊗ ROSE-WALL
⊗ AREA IDENTIFICATION	⊗ CLY WIRE ANCHOR
⊗ CORE LOCATION	⊗ TILE ROOF
⊗ LEAK LOCATION	⊗ METAL ROOF
⊗ TEST LOCATION	⊗ COLUMN
⊗ PHOTO LOCATION	
⊗ FIRE LOCATION	
⊗ SUSPECTED WET AREA	

1 OVERALL ROOF PLAN: MOISTURE SURVEY PLAN
 R2.05 SCALE: 1/32"=1'-0" (11"x17"); 1/16"=1'-0" (22"x34")



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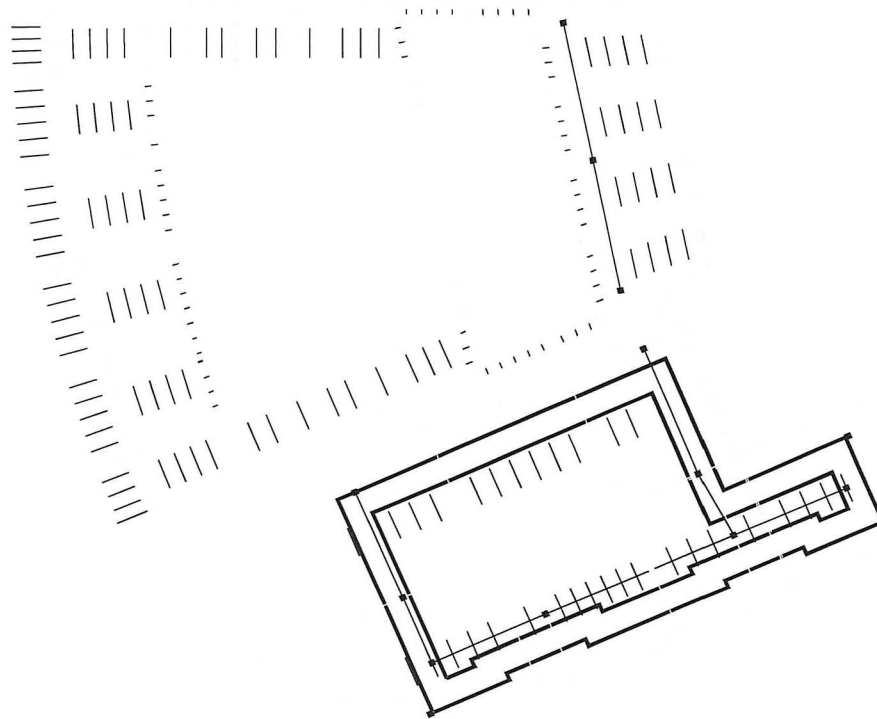
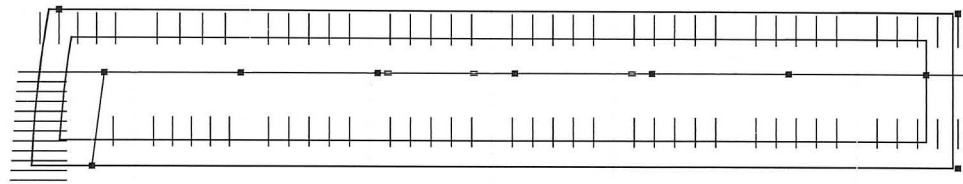
PROJECT:
 LONE STAR COLLEGE CYFAIR CAMPUS: CENTER FOR THE ARTS
 9191 BARKER CYPRESS RD
 CYPRESS, TEXAS 77433

OWNER/CLIENT:
 LONE STAR COLLEGE SYSTEM
 20515 STATE HIGHWAY 249
 HOUSTON, TEXAS 77070




REVISIONS		
NO.	DATE	BY

MOISTURE SURVEY PLAN
 PCI PROJECT NO.: 11943.21
 PCI FILE NAME: R2.00-R2.05
 SCALE: AS NOTED

DWN. BY: DATE:
 ESG 12/05/25
SHEET: R2.05



SYMBOL LEGEND

-  BEAM WRAP ROOFTOP ANCHORAGE
(13 TOTAL)
-  BEAM WRAP ROOFTOP ANCHORAGE (REINFORCEMENT REQUIRED)
(13 TOTAL)
-  8mm STAINLESS STEEL CABLE
(545' TOTAL)

NEW TIEBACK LAYOUT PLAN:
 SCALE: 1/32"=1'-0"(11"x17"); 1/16"=1'-0"(22"x34")



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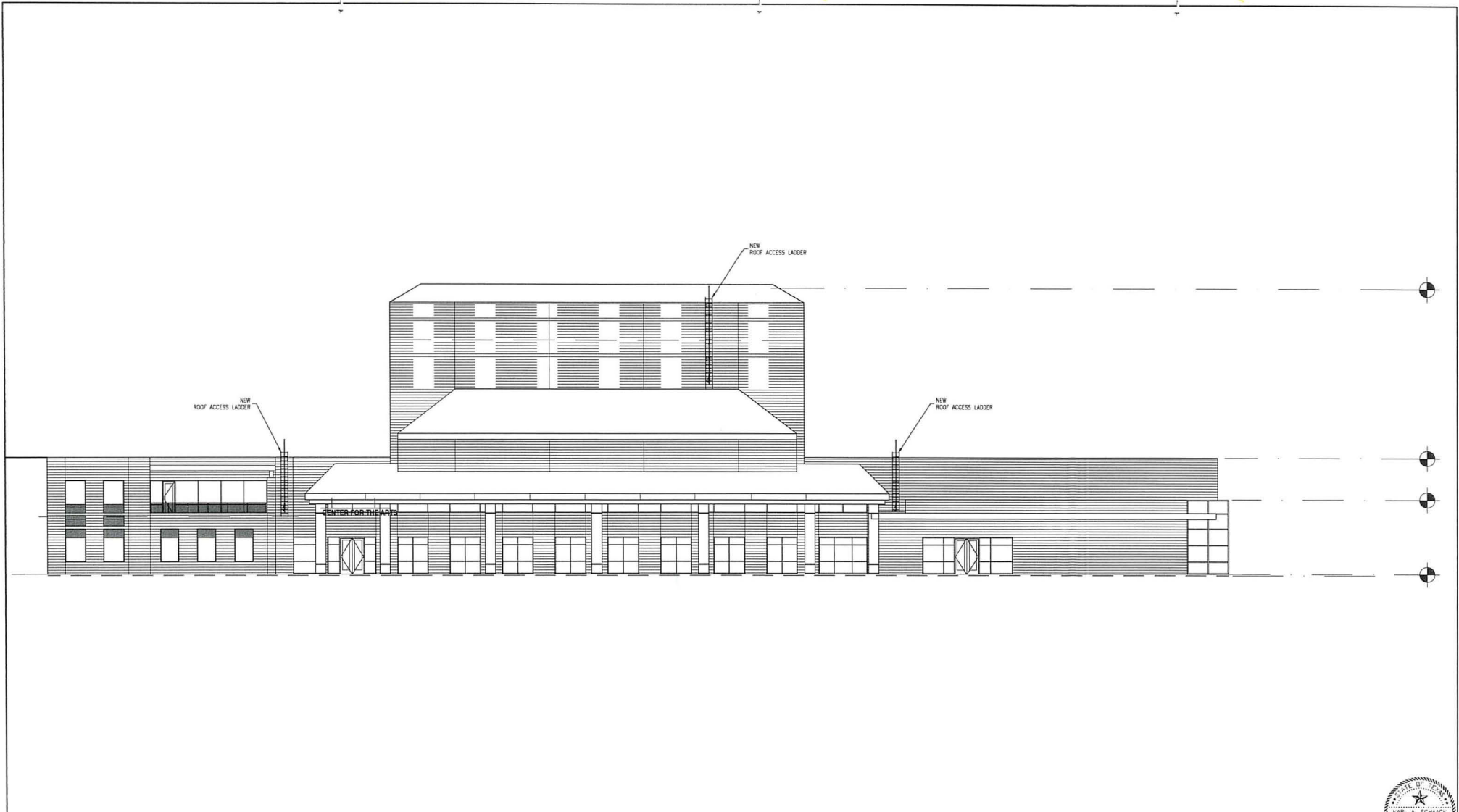
PROJECT:
 LONE STAR COLLEGE CYFAIR CAMPUS: CENTER FOR THE ARTS
 9191 BARKER CYPRESS RD
 CYPRESS, TEXAS 77433

OWNER/CLIENT:
 LONE STAR COLLEGE SYSTEM
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REVISIONS		
NO.	DATE	BY

TIEBACK LAYOUT PLAN
 PCI PROJECT NO.: 11943.21
 PCI FILE NAME: R2.06
 SCALE: AS NOTED

DWN.BY:	DATE:
ESG	12/05/25
SHEET:	R2.06



1 WEST ELEVATION:
 SCALE: 3/32"=1'-0"(11"x17"); 3/16"=1'-0"(22"x34")



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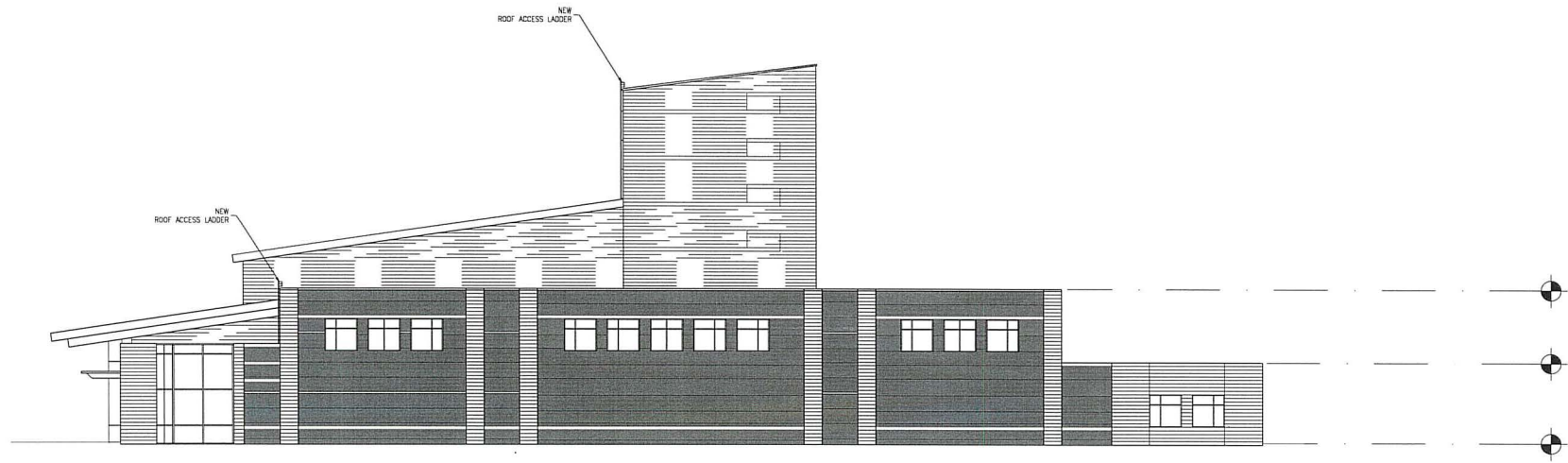
PROJECT:
 LONE STAR COLLEGE CYFAIR CAMPUS: CENTER FOR THE ARTS
 9191 BARKER CYPRESS RD
 CYPRESS, TEXAS 77433

OWNER/CLIENT:
 LONE STAR COLLEGE SYSTEM
 20515 STATE HIGHWAY 249
 HOUSTON, TEXAS 77070

REVISIONS		
NO.	DATE	BY

ELEVATION
 PCI PROJECT NO.: 11943.21
 PCI FILE NAME: R3.00-R3.03
 SCALE: AS NOTED

DWN. BY: DATE:
 ESG 12/05/25
 SHEET: R3.00



SOUTH ELEVATION:
 SCALE: 3/32"=1'-0" (11"x17"); 3/16"=1'-0" (22"x34")



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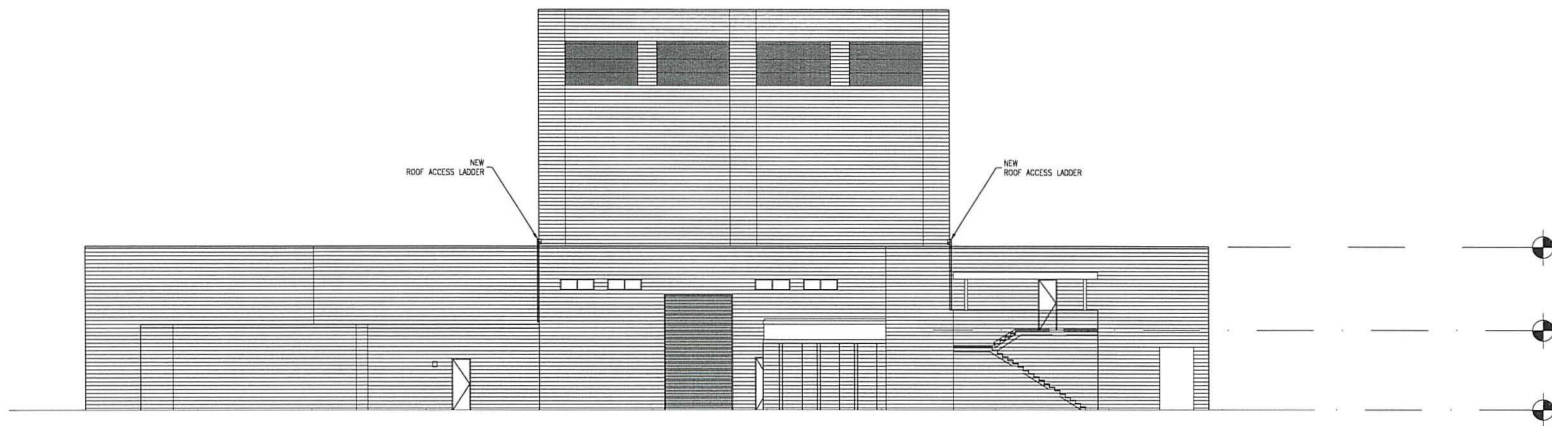
PROJECT:
 LONE STAR COLLEGE CYFAIR CAMPUS: CENTER FOR THE ARTS
 9191 BARKER CYPRESS RD
 CYPRESS, TEXAS 77433

OWNER/CLIENT:
 LONE STAR COLLEGE SYSTEM
 20515 STATE HIGHWAY 249
 HOUSTON, TEXAS 77070

REVISIONS		
NO.	DATE	BY

ELEVATION
 PCI PROJECT NO.: 11943.21
 PCI FILE NAME: R3.00-R3.03
 SCALE: AS NOTED

DWN. BY: ESG
DATE: 12/05/25
SHEET: R3.01



EAST ELEVATION:
 SCALE: 3/32"=1'-0"(11"x17"); 3/16"=1'-0"(22"x34")



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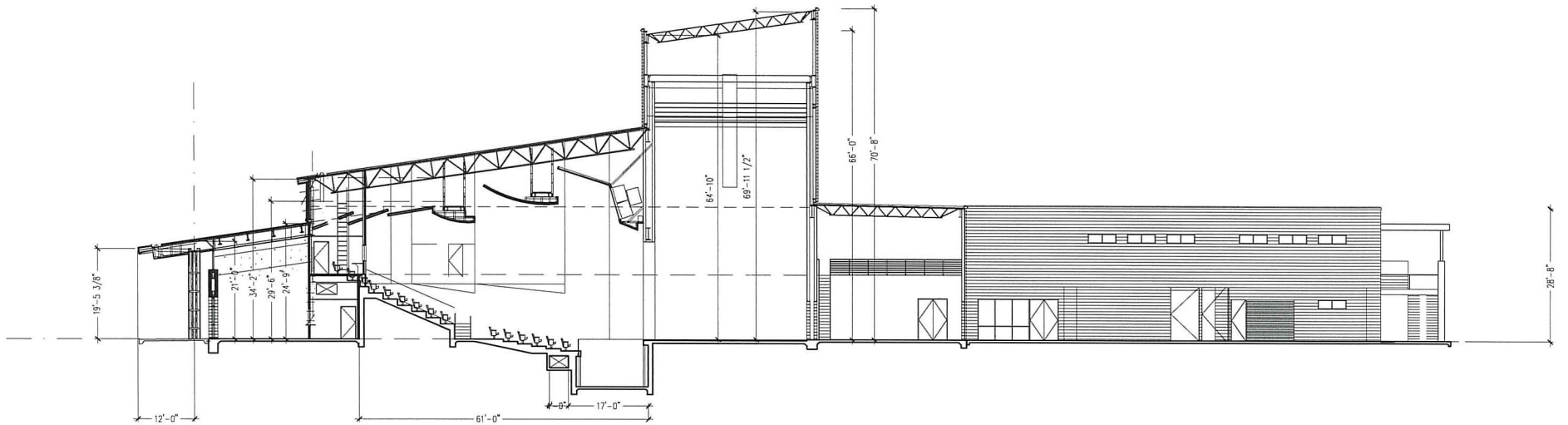
PROJECT:
 LONE STAR COLLEGE CYFAIR CAMPUS: CENTER FOR THE ARTS
 9191 BARKER CYPRESS RD
 CYPRESS, TEXAS 77433

OWNER/CLIENT:
 LONE STAR COLLEGE SYSTEM
 20515 STATE HIGHWAY 249
 HOUSTON, TEXAS 77070

REVISIONS		
NO.	DATE	BY

ELEVATION
 PCI PROJECT NO.: 11943.21
 PCI FILE NAME: R3.00-R3.03
 SCALE: AS NOTED

DWN.BY: ESG	DATE: 12/05/25
SHEET: R3.02	



BUILDING SECTION:
 SCALE: 3/64"=1'-0"(11"x17"); 3/32"=1'-0"(22"x34")



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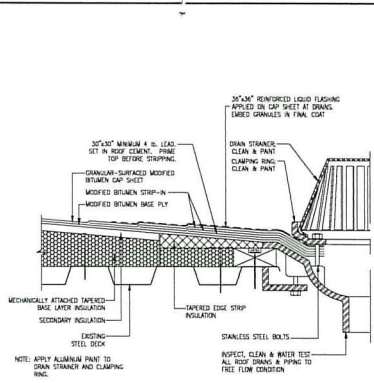
PROJECT:
 LONE STAR COLLEGE CYFAIR CAMPUS: CENTER FOR THE ARTS
 9191 BARKER CYPRESS RD
 CYPRESS, TEXAS 77433

OWNER/CLIENT:
 LONE STAR COLLEGE SYSTEM
 20515 STATE HIGHWAY 249
 HOUSTON, TEXAS 77070

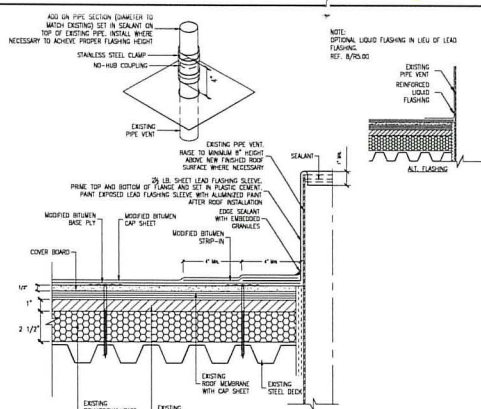
REVISIONS		
NO.	DATE	BY

BUILDING SECTION
 PCI PROJECT NO.: 11943.21
 PCI FILE NAME: R4.00
 SCALE: AS NOTED

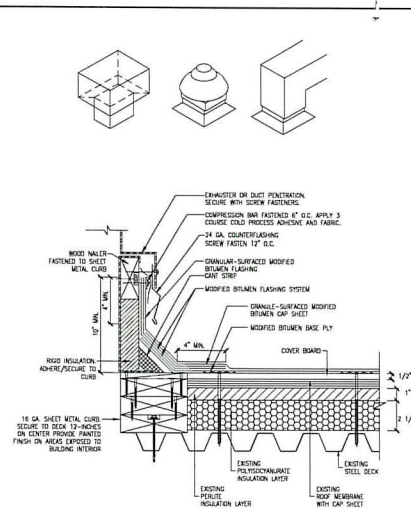
DWN.BY: ESG
DATE: 12/05/25
SHEET: R4.00



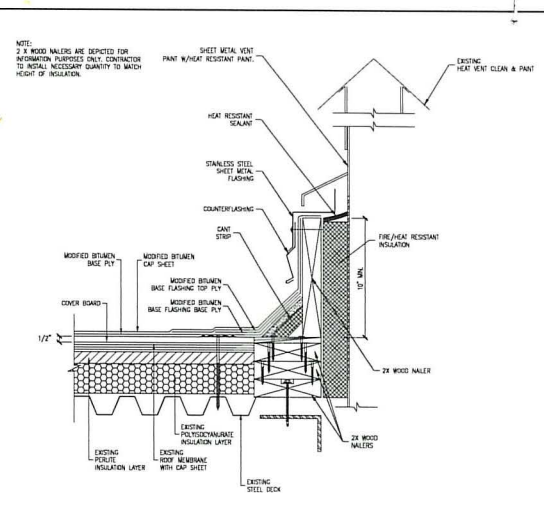
1 ROOF DRAIN
SCALE: NOT TO SCALE



2 PLUMBING VENT
SCALE: NOT TO SCALE

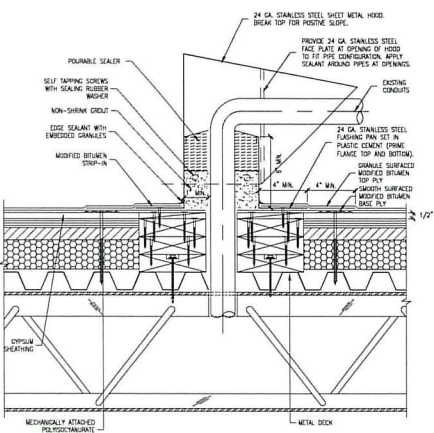


3 EQUIPMENT CURB
SCALE: NOT TO SCALE



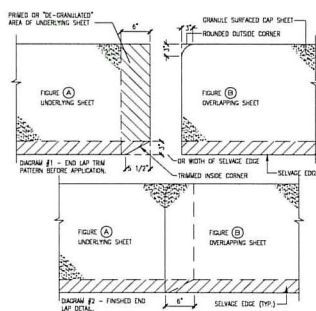
4 HEAT VENT
SCALE: NOT TO SCALE

NOTE:
2 X 4 WOOD NAILERS ARE DEPICTED FOR INFORMATION PURPOSES ONLY. CONTRACTOR TO INSTALL NECESSARY QUANTITY TO MATCH HEIGHT OF INSULATION.

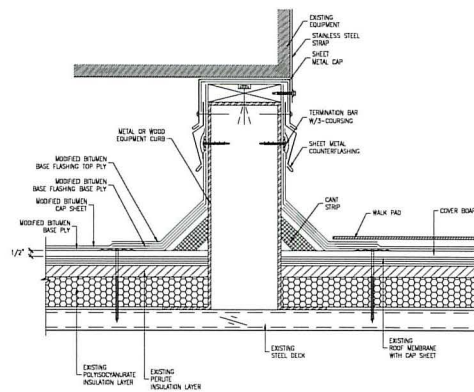


5 PIPE BOX
SCALE: NOT TO SCALE

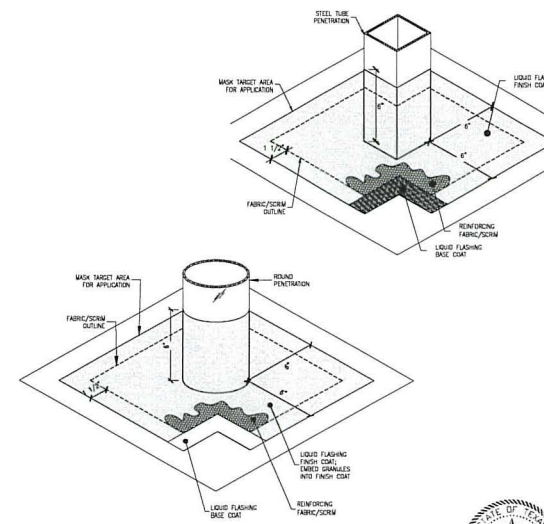
END LAP DETAIL:
DURING END LAP APPLICATION, FROM THE LOWER INSIDE CORNER OF THE UNDERLAP SHEET AT THE END OF THE ROLL AS SHOWN IN DIAGRAM #1, FIGURE A TRIM THE UPPER OUTSIDE CORNER OF THE OVERLAP SHEET AS SHOWN IN DIAGRAM #1, FIGURE B. INSIDE CORNER SHALL BE TRIMMED ON AN ANGLE 1/2" LONG FROM END OF ROLL TO OUTSIDE EDGE. WITHIN 8" FROM TRIM SHALL BE 4" MINIMUM OF SEALANT EDGE OF CAP SHEET. OUTSIDE CORNER SHALL BE TRIMMED IN A ROUNDED MANNER EXTENDING 3" FROM CORNER ALONG BOTH THE SIDE AND END. TRIMMED INSIDE CORNER SHALL BE COMPLETELY COVERED BY APPLICATION OF SUCCEEDING COURSE. CHANNEL SURFACING TO RECEIVE OVERLAPPING PIECE SHALL BE FINISHED OR TO-DISCONTINUED BY PROPER TONGUING METHOD. LOGS CHANNELS SHALL BE BROCKCASTED AND EMBEDDED IN BITUMINOUS BLEED OUT ALONG SIDE AND END LAPS.



6 CAP SHEET END LAP CONSTRUCTION
SCALE: NOT TO SCALE



7 EQUIPMENT SUPPORT
SCALE: NOT TO SCALE



8 PENETRATION
SCALE: NOT TO SCALE

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PHONE: (281)209-1724

PROJECT:
LONE STAR COLLEGE CYFAR CAMPUS: CENTER FOR THE ARTS
9191 BARKER CYPRESS RD
CYPRESS, TEXAS 77433

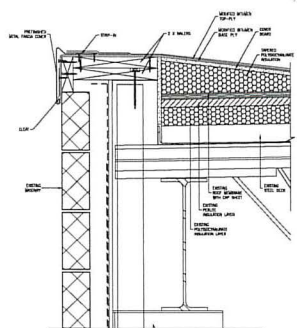
OWNER/CLIENT:
LONE STAR COLLEGE SYSTEM
20515 STATE HIGHWAY 249
HOUSTON, TEXAS 77070

REVISIONS		
NO.	DATE	BY

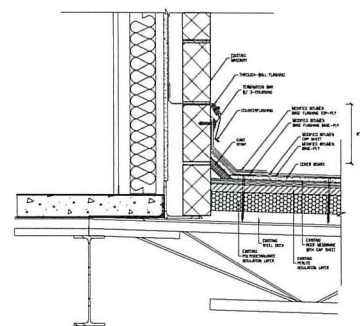
DETAILS
PCI PROJECT NO.: 11943.21
PCI FILE NAME: R5.00-R5.03
SCALE: AS NOTED

DWN.BY: DATE:
ESG 12/05/25
SHEET:
R5.00

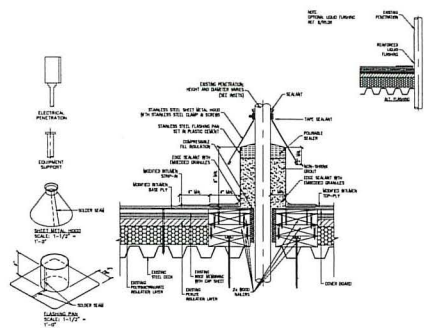




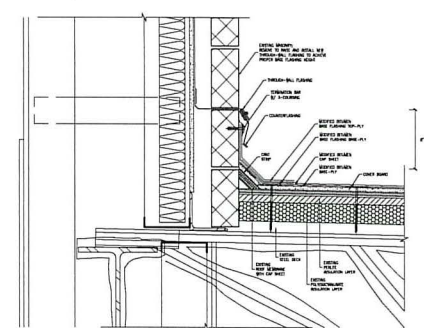
1 ROOF EDGE
 R5.01 SCALE: 3"=1'-0" (11"x17"); 1-1/2"=1'-0" (22"x34")



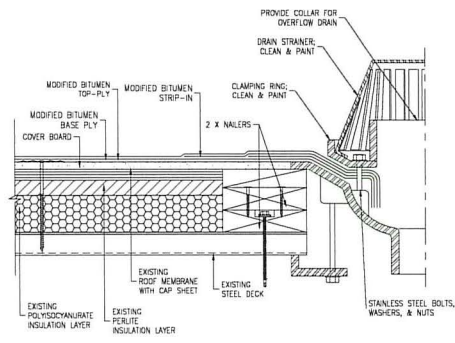
2 RISE WALL
 R5.01 SCALE: 3"=1'-0" (11"x17"); 1-1/2"=1'-0" (22"x34")



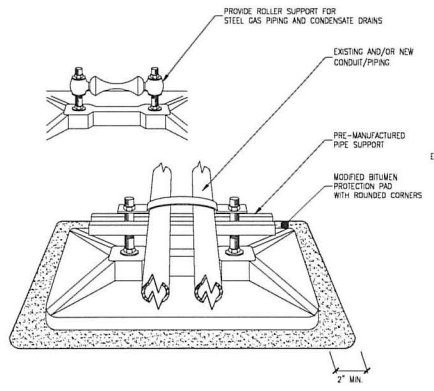
3 PENETRATION FLASHING
 R5.01 SCALE: 3"=1'-0" (11"x17"); 1-1/2"=1'-0" (22"x34")



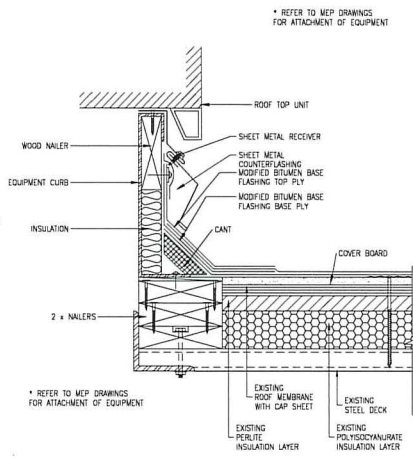
4 RISE WALL
 R5.01 SCALE: 3"=1'-0" (11"x17"); 1-1/2"=1'-0" (22"x34")



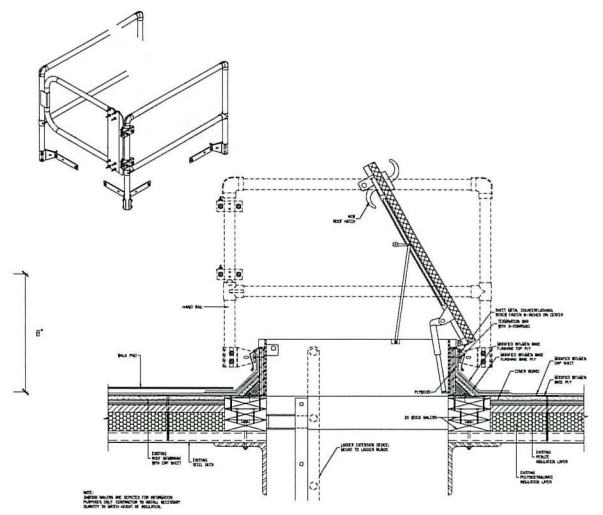
5 ROOF DRAIN
 R5.01 SCALE: 1/2"=1'-0" (11"x17"); 1"=1'-0" (22"x34")



6 PIPE SUPPORT
 R5.01 SCALE: 1/2"=1'-0" (11"x17"); 1"=1'-0" (22"x34")



7 ROOF-TOP UNIT
 R5.01 SCALE: NOT TO SCALE



8 ROOF HATCH
 R5.01 SCALE: 1/2"=1'-0" (11"x17"); 1"=1'-0" (22"x34")

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 SPRING, TEXAS 77379
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PROJECT:
 LONE STAR COLLEGE CYFAIR CAMPUS: CENTER FOR THE ARTS
 9191 BARKER CYPRESS RD
 CYPRESS, TEXAS 77433

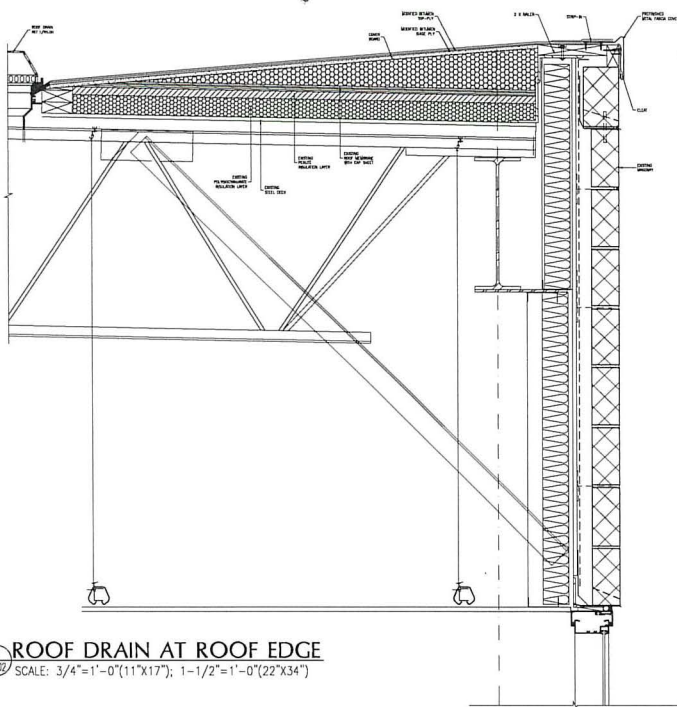
OWNER/CLIENT:
 LONE STAR COLLEGE SYSTEM
 20515 STATE HIGHWAY 249
 HOUSTON, TEXAS 77070

REVISIONS		
NO.	DATE	BY

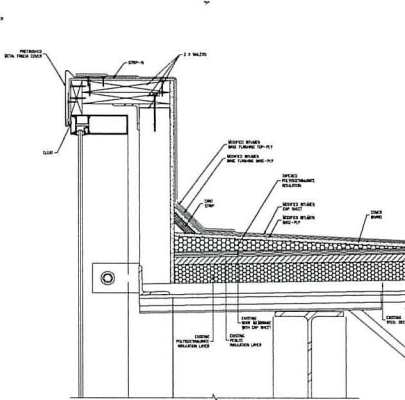
DETAILS
 PCI PROJECT NO.: 11943.21
 PCI FILE NAME: R5.01-R5.05
 SCALE: AS NOTED

DWN. BY: ESG
DATE: 12/05/25
SHEET: R5.01

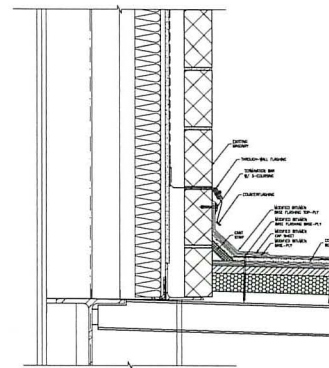




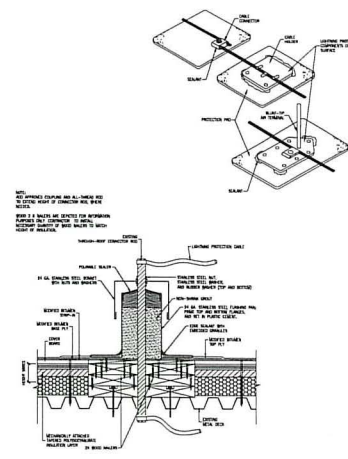
1 ROOF DRAIN AT ROOF EDGE
 R5.02 SCALE: 3/4"=1'-0"(11"X17"); 1-1/2"=1'-0"(22"X34")



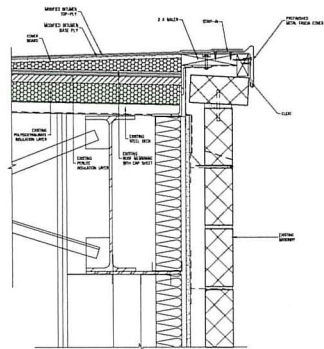
2 PARAPET AT WINDOWS
 R5.02 SCALE: 3/4"=1'-0"(11"X17"); 1-1/2"=1'-0"(22"X34")



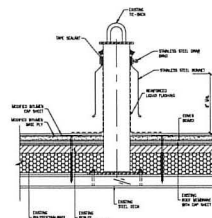
3 RISEWALL
 R5.02 SCALE: 3/4"=1'-0"(11"X17"); 1-1/2"=1'-0"(22"X34")



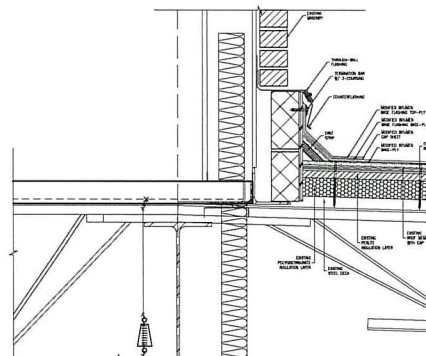
4 LIGHTNING PROTECTION
 R5.02 SCALE: 3/4"=1'-0"(11"X17"); 1-1/2"=1'-0"(22"X34")



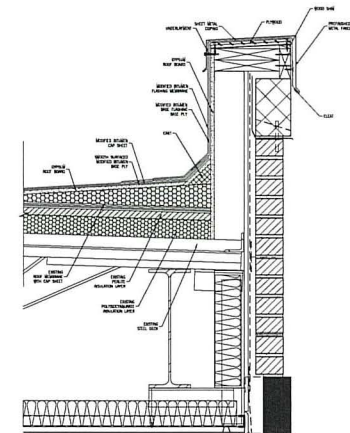
5 ROOF EDGE
 R5.02 SCALE: 3/4"=1'-0"(11"X17"); 1-1/2"=1'-0"(22"X34")



6 TIE-BACK PENETRATION
 R5.02 SCALE: 3/4"=1'-0"(11"X17"); 1-1/2"=1'-0"(22"X34")



7 RISEWALL
 R5.02 SCALE: 3/4"=1'-0"(11"X17"); 1-1/2"=1'-0"(22"X34")



8 PARAPET
 R5.02 SCALE: 3/4"=1'-0"(11"X17"); 1-1/2"=1'-0"(22"X34")



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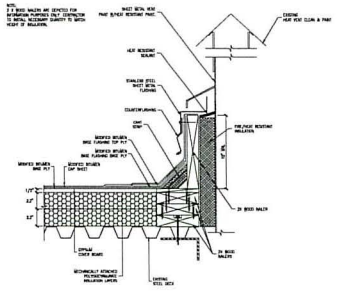
PROJECT:
 LONE STAR COLLEGE CYFAR CAMPUS: CENTER FOR THE ARTS
 LONE STAR COLLEGE SYSTEM
 20515 STATE HIGHWAY 249
 HOUSTON, TEXAS 77070

OWNER/CLIENT:
 LONE STAR COLLEGE SYSTEM
 20515 STATE HIGHWAY 249
 HOUSTON, TEXAS 77070

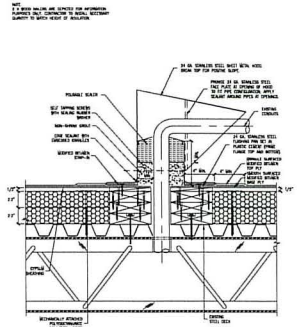
REVISIONS		
NO.	DATE	BY

DETAILS
 PCI PROJECT NO.: 11943.21
 PCI FILE NAME: R5.01-R5.05
 SCALE: AS NOTED

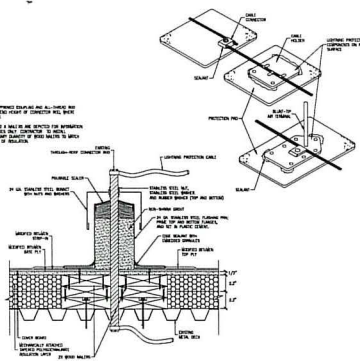
DWN. BY: ESG
DATE: 12/05/25
SHEET: R5.02



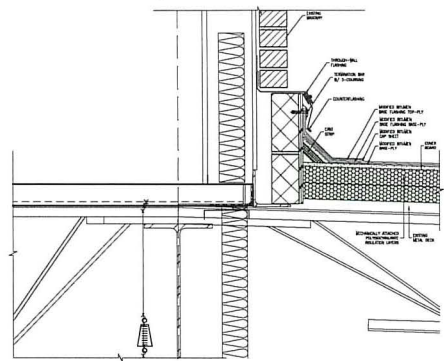
1 HEAT VENT
 SCALE: 3/4"=1'-0"(11"x17"); 1-1/2"=1'-0"(22"x34")



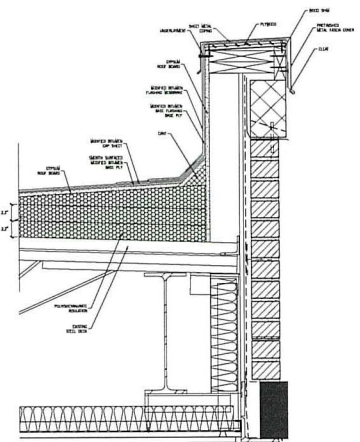
2 PIPE BOX
 SCALE: 3/4"=1'-0"(11"x17"); 1-1/2"=1'-0"(22"x34")



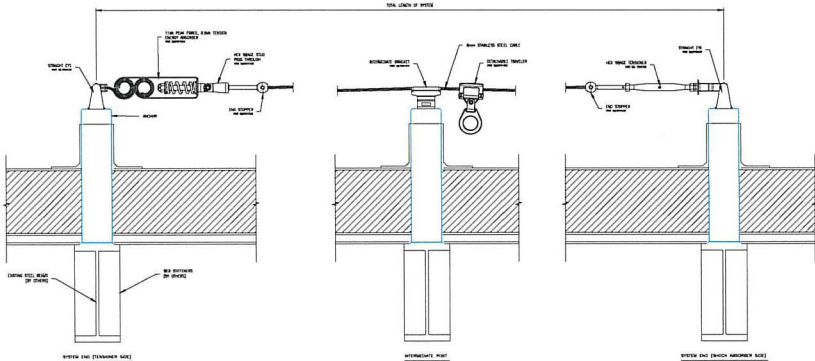
3 LIGHTNING PROTECTION SYSTEM
 SCALE: 3/4"=1'-0"(11"x17"); 1-1/2"=1'-0"(22"x34")



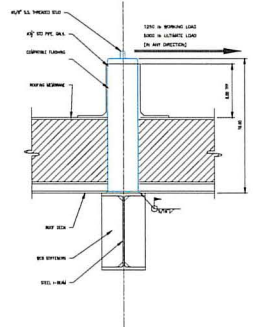
4 RISE WALL
 SCALE: 3/4"=1'-0"(11"x17"); 1-1/2"=1'-0"(22"x34")



5 PARAPET
 SCALE: 3/4"=1'-0"(11"x17"); 1-1/2"=1'-0"(22"x34")



6 RIGID HORIZONTAL LIFELINE SYSTEM
 SCALE: NOT TO SCALE



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 9191 BARKER CYPRESS RD
 CYPRESS, TEXAS 77433

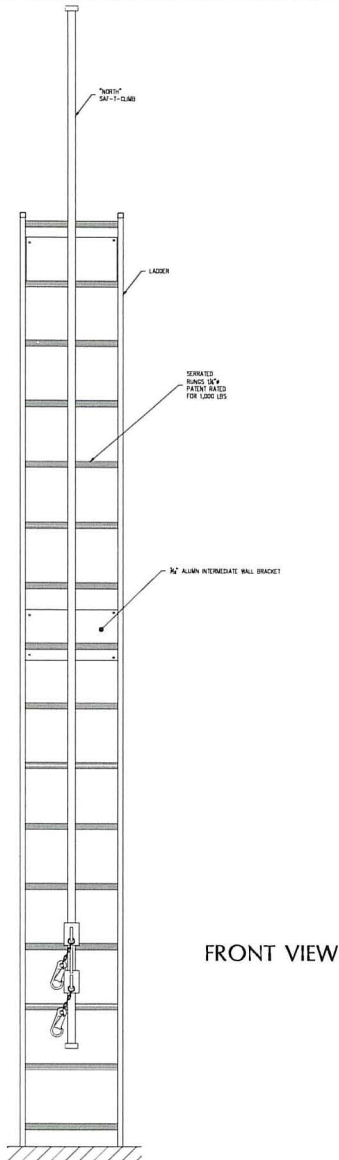
OWNER/CLIENT:
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 20515 STATE HIGHWAY 249
 HOUSTON, TEXAS 77070

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DETAILS
 PCI PROJECT NO.: 11943.21
 PCI FILE NAME: R5.01-R5.05
 SCALE: AS NOTED

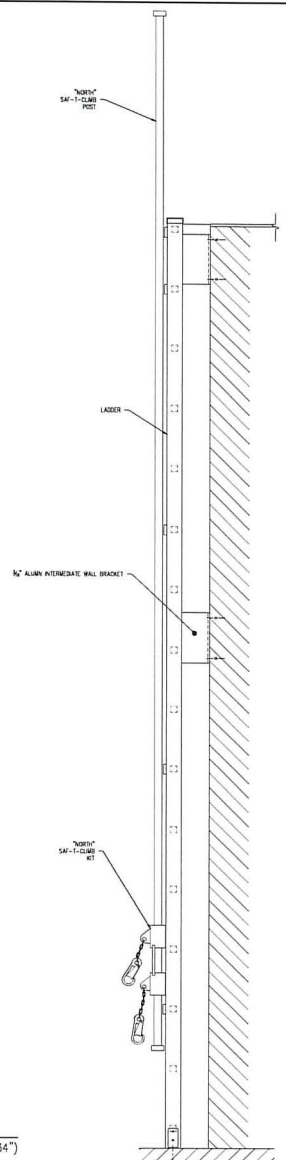
DWN. BY: ESG
DATE: 12/05/25
SHEET: R5.03



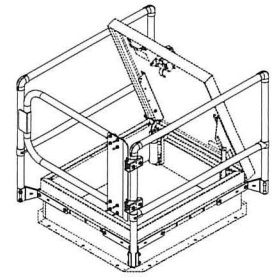


FRONT VIEW

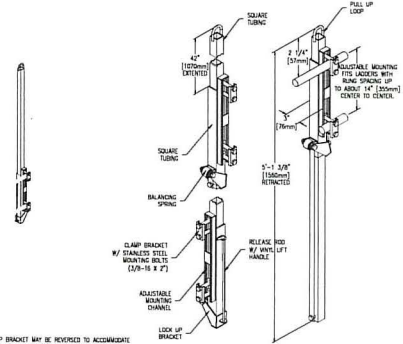
1 ROOF ACCESS LADDER
 SCALE: NOT TO SCALE(11"x17"); NOT TO SCALE(22"x34")



SIDE VIEW



2 ROOF HATCH SAFETY RAIL
 SCALE: 1/2"=1'-0"(11"x17"); 1"=1'-0"(22"x34")



CLAMP BRACKET MAY BE REVERSED TO ACCOMMODATE RANG SIZE OF 2 1/2" (63mm) TO 1 1/4" (31mm) WITH STANDARD 2" (51mm) BELTS, FABRICATED LARGER RINGS WILL REQUIRE LONGER BELTS.

3 LADDER EXTENSION DEVICE
 SCALE: 1/2"=1'-0"(11"x17"); 1"=1'-0"(22"x34")



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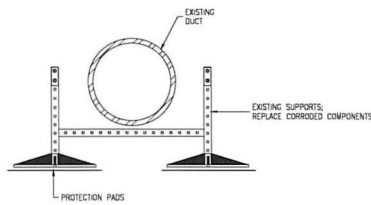
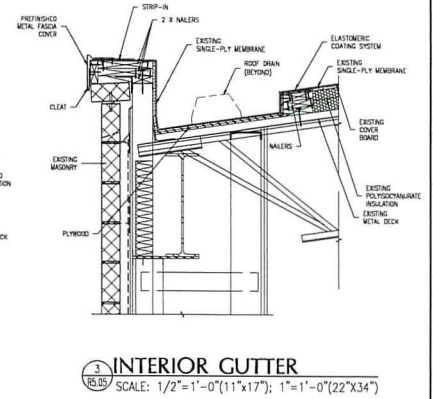
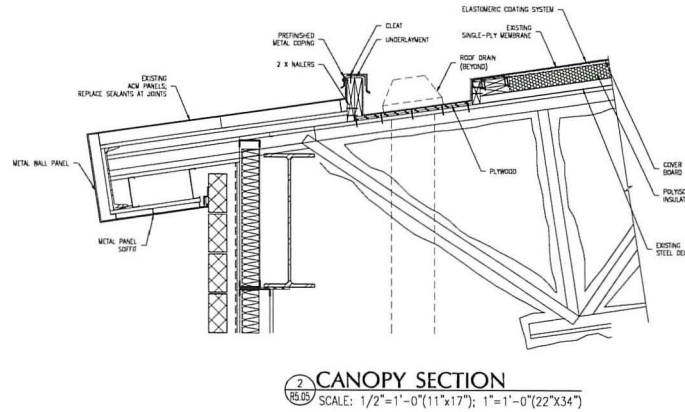
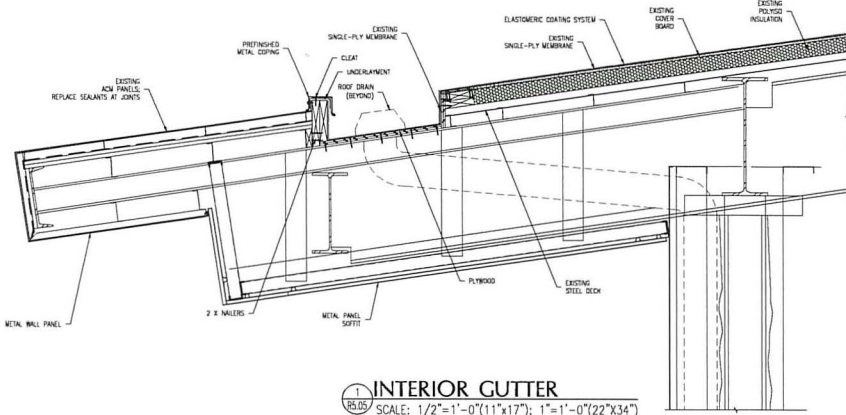
PROJECT:
 LONE STAR COLLEGE CYFAIR CAMPUS: CENTER FOR THE ARTS
 9191 BARKER CYPRESS RD
 CYPRESS, TEXAS 77433

OWNER/CLIENT:
 LONE STAR COLLEGE SYSTEM
 20515 STATE HIGHWAY 249
 HOUSTON, TEXAS 77070

REVISIONS		
NO.	DATE	BY

DETAILS
 PCI PROJECT NO.: 11943.21
 PCI FILE NAME: R5.01-R5.05
 SCALE: AS NOTED

DWN.BY: DATE:
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 SHEET: R5.04



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 9191 BARKER CYPRESS RD
 CYPRESS, TEXAS 77433

OWNER/CLIENT:
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 20515 STATE HIGHWAY 249
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REVISIONS		
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DETAILS
 PCI PROJECT NO.: 11943.21
 PCI FILE NAME: R5.01-R5.05
 SCALE: AS NOTED

DWN. BY: DATE:
 ESG 12/05/25
 SHEET: R5.05